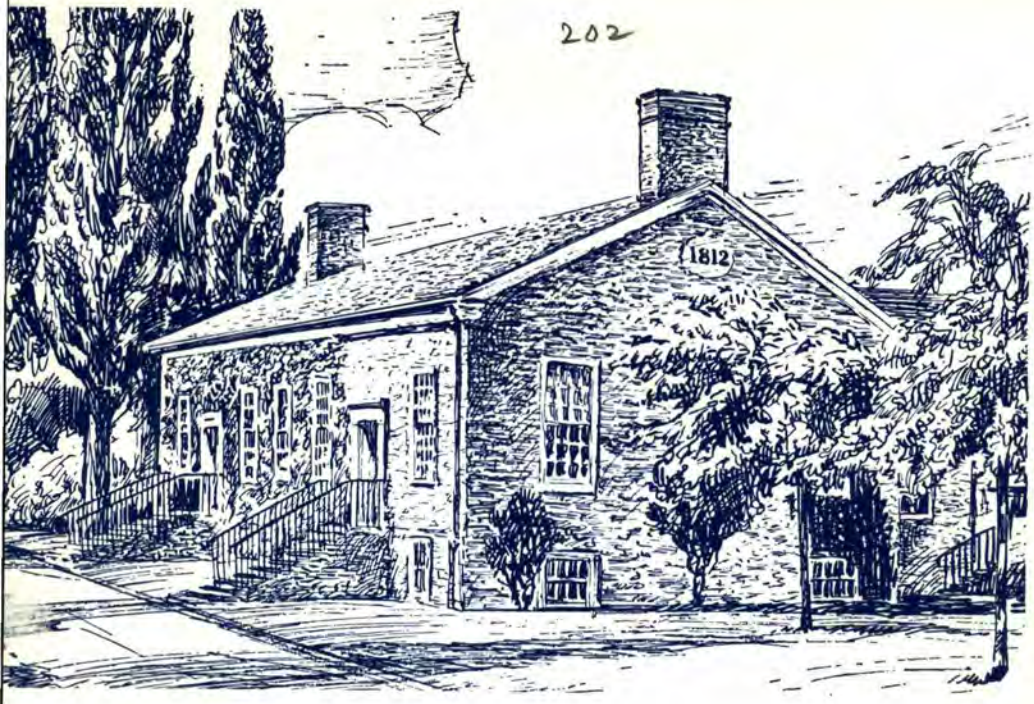

HAMILTON COLLEGE

CATALOGUE

1959-1960

HAMILTON COLLEGE CATALOGUE

Program for 1959-60

Records for 1958-59

Clinton, New York

September, 1959

Table of Contents

THE HAMILTON IDEA 5

1. ENROLLMENT 7
   Admission, 9; Expenses, 13; Financial Aid, 17

2. ACADEMIC PROGRAM 25
   Academic Requirements, 27; Courses of Instruction, 39; Planning for a Career, 67

3. GENERAL INFORMATION 71
   The College and Its Resources, 73; Undergraduate Life, 79

4. HONORS AND AWARDS 87
   Honors, 89; Fellowships, 90; Prize Scholarships, 91; Prizes, 93

APPENDIX: COLLEGE RECORDS, 1958-59 99
   Board of Trustees, 101; The Faculty, 103; Administrative Officers and Staff, 108; Society of Alumni, 110; Degrees, Honors, and Awards, 114; Hamilton College Finances, 120

INDEX 122

MAP OF ROUTES TO HAMILTON COLLEGE .. 125

College Calendar

1959-60

SEPT.	12-16	Sat.-Wed.	Freshman induction.
	14-16	Mon.-Wed.	Registration for upper classes.
	17	Thurs.	Beginning of academic year, 8:00 a.m. College Convocation.
OCT.	15	Thurs.	Quarter term warnings due for freshmen.
	24	Sat.	Fall house parties.
NOV.	7	Sat.	Homecoming Day.
	9	Mon.	Mid-semester warnings due.
	14	Sat.	Union Game.
	25	Wed.	Thanksgiving recess begins, 12:00 noon.
	30	Mon.	Thanksgiving recess ends, 8:00 a.m.
DEC.	18	Fri.	Christmas recess begins, 12:00 noon.
JAN.	4	Mon.	Christmas recess ends, 8:00 a.m.
	18-27	Mon.-Wed.	Final examinations.
FEB.	1	Mon.	Beginning of second semester, 8:00 a.m.
	20	Sat.	Winter Carnival.
MARCH	23	Wed.	Mid-semester warnings due.
	26	Sat.	Spring recess begins, 12:00 noon.
APRIL	5	Tues.	Classes resume, 8:00 a.m.
	11	Mon.	Sophomore elections of concentration field due.
	28	Thurs.	Pre-registration for 1960-61 due.
	30	Sat.	Parents' Day.
MAY	7	Sat.	Spring house parties.
	18	Wed.	Class and Charter Day.
	23 to	Mon.	
JUNE	1	Wed.	Final examinations.
	5	Sun.	Commencement.

1960-61

SEPT.	10-14	Sat.-Wed.	Freshman induction.
	12-14	Mon.-Wed.	Registration for upper classes.
	15	Thurs.	Beginning of academic year, 8:00 a.m. College Convocation.
OCT.	13	Thurs.	Quarter term warnings due for freshmen.
	15	Sat.	Fall house parties.
NOV.	7	Mon.	Mid-semester warnings due.
	12	Sat.	Union Game. Homecoming.
	23	Wed.	Thanksgiving recess begins, 12:00 noon.
	28	Mon.	Thanksgiving recess ends, 8:00 a.m.
DEC.	17	Sat.	Christmas recess begins, 12:00 noon.
JAN.	3	Tues.	Christmas recess ends, 8:00 a.m.
	16-25	Mon.-Wed.	Final examinations.
	30	Mon.	Beginning of second semester, 8:00 a.m.
FEB.	18	Sat.	Winter Carnival.
MARCH	22	Wed.	Mid-semester warnings due.
	25	Sat.	Spring recess begins, 12:00 noon.
APRIL	4	Tues.	Classes resume, 8:00 a.m.
	10	Mon.	Sophomore elections of concentration field.
	27	Thurs.	Pre-registration for 1961-62 due.
	29	Sat.	Parents' Day.
MAY	6	Sat.	Spring house parties.
	11-12	Thurs., Fri.	Senior comprehensive examinations.
	17	Wed.	Class and Charter Day.
	22-31	Mon.-Wed.	Final examinations.
JUNE	4	Sun.	Commencement.

The Hamilton Idea

HAMILTON COLLEGE is one of the oldest small liberal arts colleges in the United States. Instruction has been continuous since 1793 when Samuel Kirkland, missionary to the Iroquois Indians, achieved his lifelong ambition: the founding of an academy.

Because of his contribution to the American Revolution through securing the neutrality of the Indians, Kirkland was able to enlist the support of George Washington and Alexander Hamilton for his proposed academy, Hamilton consenting to be one of the first trustees.

On July 1, 1794, Baron von Steuben, "the drillmaster of the Revolution," laid the cornerstone of the first building of the Hamilton-Oneida Academy. Eighteen years later, in 1812, the academy was chartered as Hamilton College.

As the College begins its 148th year, the enrollment is about 700 students. It will, within the next three years, reach 750. This increase, like others in the past, has been limited by the trustees so that the College can continue to stress the quality of its education, its tradition for intellectual distinction, and its concern with the individual student.

Undergraduates at Hamilton benefit not only from its small size but also from the continuing generosity of its friends and alumni. The amount of endowment, of current support, and of capital investment, represented by the well-equipped plant, enable the College to provide an education far beyond that which tuition alone could support.

Evidence of this is the size of Hamilton's classes. The ratio of Faculty to undergraduates is about one to eleven; half the classes at Hamilton have fewer than 18 men. Hence there is a close and rewarding relationship between students and faculty.

Other characteristics of Hamilton should also be mentioned. From the beginning, Hamilton has affirmed the importance of the Christian faith, but it is not affiliated with any religious denomination. It puts great store on the personal integrity of its students, who govern themselves under a long-established honor system. It puts emphasis on teaching carry-over sports, yet has a varied and vigorous program of intercollegiate athletics. But above all, Hamil-

ton concerns itself with the development of its students' intellectual abilities.

Today a student enrolling at Hamilton is expected to learn to speak and write his own language well, to attain skill in one foreign language, to become acquainted with the methods of science, to expand his knowledge of the relationship between man and society, to become familiar with at least one of the creative arts, and to develop his understanding of ethical and spiritual values. These attainments are essential to a liberal arts education. To prepare young men for useful and effective lives was the original aim of Samuel Kirkland. It is the aim of Hamilton College today.

1

ENROLLMENT

Admission

Expenses

Financial Aid

. . . the essence of the matter is still to bring together young men of ability and ambition, young men of serious purpose who want to do something useful with themselves, with older men of deeper knowledge, riper wisdom, broad sympathy, and some personal convictions about the business of living, which they believe worth sharing. Hamilton has always stood for that kind of education and will continue to do so. Our dream for the College is the dream of the founder.

—Robert Ward McEwen, President, 1948—

Admission

HAMILTON COLLEGE makes a selection among applicants for admission to the freshman class on the basis of scholarship and character. A candidate from a high school will be expected to have an average for his course of not less than 80 per cent. A candidate from a private school should have college certificating grades in all of his subjects. In neither case does the meeting of these minimum standards assure admission.

Because each year there are more qualified applicants than there are places available, admission to the freshman class is competitive. Among the qualified candidates preference will be given to sons of alumni and to those who live in regions or attend schools not already well represented in the class. Preference will also be given to applicants who show promise of being able to make contributions to campus activities.

Since it is the experience of the College that freshmen substantially less mature than their classmates do not enjoy the full opportunities of college life, age is considered in the evaluation of a candidate who would be barely seventeen upon entering.

Application for admission to the freshman class should be made to the Secretary of Admission, Hamilton College, Clinton, New York. A candidate should file his application as early as possible in the year in which he seeks admission, preferably before the completion of the first half of his final preparatory year. The blue preliminary form facing page 16 will bring the applicant the formal application blank.

REQUIREMENTS for ADMISSION

Secondary School Credits

A candidate for admission is expected to complete a secondary school course which gives preparation for the work of a liberal arts college. Sixteen units will be required, drawn from the usual college preparatory subjects of English, mathematics, foreign language, science, and social studies. Although the College does not prescribe how these subjects shall be distributed, it expects a minimum of four years of English, three years of mathematics, two years of science, and two, preferably three, years of one foreign

language. If this language is to be continued at Hamilton it is strongly recommended that it be studied through the senior year of secondary school. Candidates who propose to participate in the cooperative engineering program (page 65) should offer strong records in mathematics and the physical sciences. Above all else, Hamilton College stresses ability and ambition to do intellectual work. The Committee on Admission will, therefore, consider the applications of able candidates who are highly recommended by their schools but whose preparation is somewhat irregular in number of units presented and subjects studied.

Examinations

Each candidate must take in December, January, February, or March (preferably in January) of his senior year the Scholastic Aptitude Test of the College Entrance Examination Board, which is given at convenient places throughout the country. Application for this examination must be addressed to the College Entrance Examination Board, Box 592, Princeton, New Jersey, at least three weeks in advance of the date of the examination. The Board will furnish each candidate with all the instructions he may need. The fee is six dollars.

Interview

Since Hamilton is a small college and its members share a common life, the character and personal qualifications of students are of great importance. Every candidate must, therefore, be interviewed. For the mutual benefit of both the candidate and the College, a visit to the College, by appointment, is strongly recommended. At that time the interview requirement will normally be satisfied. If for reasons of distance the candidate should find it impossible to visit the College he should request that other arrangements for his interview be made.

Early Acceptance

Hamilton is willing to give consideration for early acceptance to the Class of 1964 to any student whose first choice of colleges is Hamilton. A candidate interested in applying for early acceptance must submit a transcript for three years of secondary school, the scores of College Entrance Examination Board aptitude tests taken during his junior year, and a letter of recommendation from his secondary school. Interviews are required of all candidates.

In general, early acceptance is restricted to eminently well-qualified candidates.

Admission with Advanced Standing

Entering freshmen who pass the advanced placement tests, given in May by the College Entrance Examination Board, may, with the approval of the Academic Council and the department concerned, be admitted to advanced standing. They will be credited with the same number of hours towards graduation as if they had taken the corresponding courses at Hamilton; they will have satisfied the equivalent parts of the graduation requirement; and they will be eligible for admission to more advanced courses in the departments concerned. Information about these tests can be obtained from the College Entrance Examination Board.

Transfer from Other Colleges

Although the opportunity for such admission is limited, an undergraduate who desires admission with transfer credit must present an official statement of honorable dismissal and of his previous work at an approved institution of collegiate rank. With the exception that transfer credit in freshman English composition must be validated by an achievement test at Hamilton, he may be granted credit for such work without examination. This official statement must include a full list of his accepted preparatory subjects, and a list of his college courses with his record therein. Such admission by transfer is ordinarily granted only when the applicant has maintained a standing in the upper half of his class. Credit is given only for courses completed with a grade of C or better. To be eligible for a degree from Hamilton, a transfer student must have completed at least two years in residence and all the requirements for graduation (pages 28-33).

REGISTRATION

Freshmen must report several days before the formal opening of college. During these days each freshman has an interview with the Dean, Associate Dean, or a counselor and takes a physical examination, an aptitude test, and achievement tests. The information supplied by the tests is used by the Deans and by faculty counselors to help each student adjust himself to the life and work of the College.

All students must register before the opening of college. (In 1960, between September 12 and September 14.) Schedules of returning students are revised at this time, if necessary, and the schedules of new men arranged.

Expenses

HAMILTON's founders desired that no worthy young man should be turned away for lack of funds. To that end, they and their successors created an endowment which—together with annual gifts—makes possible a tuition charge representing only half of what a student's education actually costs.

However, for many men (fully 35 per cent of those enrolled at Hamilton in an average year) even this contribution is not enough; for them, scholarship money, employment opportunities, or loans have been provided in limited amounts.

Clearly enough the desire to make Hamilton's education available to all who are found worthy remains; how well this desire can be realized for each applicant can only be answered on an individual basis. Any applicant who foresees financial difficulties will be assisted personally by the Secretary of Admission in planning a four-year budget.

The full cost of a year at Hamilton, including personal needs, is now between $2,250 and $2,450; actual college charges covering tuition, board, and room are $200 to $400 less than those figures. Below are listed the charges and the ways in which the College offers assistance in meeting them.

COLLEGE FEES

Application Fee, Deposits

APPLICATION FEE. An application fee of ten dollars (not returnable) must accompany each formal application for admission. No fee is required with the preliminary application form (the blue form facing page 16).

REGISTRATION DEPOSIT. A pre-registration deposit of fifty dollars (not returnable) is required of all candidates for admission within fifteen days after the receipt of formal notice of acceptance. This fee is credited on the first semester's bill.

GUARANTEE DEPOSIT. An initial guarantee deposit of twenty-five dollars is required from each regularly enrolled student upon entering college. This deposit will be held to insure final payment of minor bills. Any unused balance will be returned to the student after he leaves college.

Tuition and Other Fixed Fees

TUITION	per semester	$550.00
ROOM (dormitory)	per semester	150.00
BOARD (at Commons)	per semester	275.00
OVER-ALL FEE	per semester	50.00

TUITION. The basic tuition fee is paid by all undergraduates. Those who enroll in more than the normal 16 to 18 hours per semester (five courses plus a Public Speaking course) must pay an OVERELECTION FEE of $35.00 for each extra hour elected when such overelection is necessary to remove delinquencies. (Membership in the Choir is not considered an overelection). Those who elect fewer than 12 hours per semester pay an UNDERELECTION FEE of $50.00 per hour in lieu of the semester tuition.

ROOM AND BOARD. The figures given above are those for rent of a room in a college dormitory and for board at the College Commons. Rates for room and board in fraternity houses are determined by each house.

OVER-ALL FEE. The Over-All Fee covers medical services as described on page 78, and the charges for student activities, student publications, and educational equipment. It is paid by all registered students.

SPECIAL EXAMINATION FEE. A special examination fee of $60.00 is charged for each examination to earn credit for independent coverage of course work.

GRADUATION FEE. A graduation fee of $10.00 is required to be paid by each senior. The charge will appear on the second bill of the spring semester.

Variable Fees

In addition to the fixed fees listed above, a student may incur other charges, as a matter of choice. If he wishes to rent a music-practice room, the fee is $7.50 per semester. For use of the Record Library, the charge is $4.00 per semester.

Social Tax

As a service to the Social Committee of the Student Senate, the fall term bills for upperclassmen may include a ten dollar charge for the social ticket, depending upon each student's option at the time of pre-registration in the spring. All fall term bills to members of the freshman class will include the charge for the social ticket; any freshman who does not want to purchase a ticket may deduct that item from the bill. The social ticket entitles the holder to participate at the class dances, at Winter Carnival, at the jazz concerts, and at any other occasions approved by the Social Committee.

PAYMENT of TERM BILLS

The bill for the fall semester will be mailed to each student's home address before the opening of college in the fall. The bill for the spring semester will be mailed to the student's college address before the beginning of the semester. In each case, at least one-half of the bill must be paid before the student may attend his first class of the semester. The other half of the bill may be paid in equal installments by October 15 and November 15 in the fall semester and by March 15 and April 15 in the spring semester. In the case of freshmen, credit for the registration deposit will be shown on the fall bill.

Bills will be sent only to students, who will be responsible for their payment.

Any student whose bill is not paid as provided herein may be excluded from classes until the bill or installment due is paid, and further shall be subject to a five dollar service charge for each late payment.

No student whose college bills are unpaid may receive a degree or honorable dismissal, or obtain a transcript of his record.

If a student enters late, is absent under discipline, withdraws or is dropped from college, his board bill is prorated provided he takes his meals at Commons; no other rebate is granted him.

Secretary of Admission,
Hamilton College,
Clinton, New York

Date _____

Please send me the final application form for admission in September, 19_____.

Name _____

Home Address _____

_____

Date and Place of Birth _____

Present School _____

Date of Graduation _____

Career Interest _____

Please list relatives or friends who attended Hamilton; we would like to inform them of your interest in the College:

Hamilton relatives: _____

Hamilton friends: _____

Financial Aid

SEVERAL possibilities for financial aid present themselves to the applicant for admission who finds himself unable to meet the full cost of enrollment. Many Hamilton men augment their resources through part-time employment, and a number receive financial assistance through scholarship grants. General scholarships (pages 18-19) are available to a large number of able freshmen, and many of the special scholarships (pages 19-20) are also available to first-year men provided they meet the particular requirements stipulated in each instance. Listed below are the scholarships especially reserved for freshmen. It should be noted that, in the main, these grants are awarded to candidates who have demonstrated their capacity for intellectual achievement, who have shown promise of leadership, and who have demonstrated need for financial aid. Any candidate for admission is eligible to apply for scholarship aid. For further information, candidates should write to the Secretary of Admission, Hamilton College, Clinton, New York.

FRESHMAN SCHOLARSHIPS

George F. Baker Scholarships

Established by the will of the late George F. Baker, this scholarship program makes funds available to the young men demonstrating the highest over-all promise. Any candidate for admission to Hamilton in 1960, 1961, or 1962 may apply for a Baker Scholarship. In determining the three or four annual recipients, the College will be guided by many criteria, among them the qualities of character and academic competence, acceptance by their contemporaries, and a natural talent for leadership. Winners will be selected on the basis of relative abilities, but the actual amount of the award, ranging from a few hundred dollars to total expenses for four years, will depend upon financial need.

Scholarships Offered in Specific Areas

Three scholarships are offered each year by the College's regional alumni associations, on a rotating basis among the 24 associations.

In 1960, these awards will be made by the alumni associations of Metropolitan New York, of Rochester, New York, and by the joint action of the Philadelphia, Pennsylvania, and Washington, D. C., associations. Details appear on the following pages.

District of Columbia

In 1960, the PHILADELPHIA-WASHINGTON ALUMNI ASSOCIATION SCHOLARSHIP, with a value of up to $6,000 over a four-year period, will be available to candidates for admission to the Class of 1964 who attend schools in these areas: the District of Columbia; Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania; Camden County, New Jersey; the City of Baltimore, and Baltimore, Montgomery and Prince Georges Counties, Maryland; and Arlington and Fairfax Counties, Virginia.

Illinois

Sons of secondary school teachers in the state of Illinois should note the provisions of the scholarship made available to them (page 20).

Maryland

Candidates for admission who attend school in the City of Baltimore and in Baltimore, Montgomery and Prince Georges Counties should note the provisions of the PHILADELPHIA-WASHINGTON ALUMNI ASSOCIATION SCHOLARSHIP (see District of Columbia, above).

New Jersey

In 1960, the ALUMNI ASSOCIATION OF METROPOLITAN NEW YORK SCHOLARSHIP will be offered to students who attend schools in Bergen, Essex, Hudson, Mercer, Morris, Passaic, and Union Counties, New Jersey. This scholarship will pay up to $6,000 over a four-year period, the exact amount of the award to depend upon the financial need of the recipient.

Candidates for admission who attend school in Camden County should note the provisions of the PHILADELPHIA-WASHINGTON ALUMNI ASSOCIATION SCHOLARSHIP (see District of Columbia, above).

New York

In 1960, the ROCHESTER ALUMNI ASSOCIATION SCHOLARSHIP, with a value of up to $4,000 over a four-year period, will be available to candidates for admission attending schools in these counties: Livingston, Monroe, Ontario, Orleans, Wayne, and Yates.

In certain years, the ADIRONDACK ALUMNI SCHOLARSHIP, with a

value of up to $4,000 over a four-year period, is offered to students attending schools in Clinton, Essex, Franklin, Hamilton, Saratoga, Warren, and Washington Counties. Income from an endowment grant made to the College by Milton G. Tibbitts, of the Class of 1904, provides this scholarship which will be available for award again in 1961.

In certain years, candidates for admission who attend schools in Livingston, Monroe, Ontario, Orleans, Wayne, and Yates Counties are eligible to compete for the LIEUTENANT WILLARD B. EDDY, JR., MEMORIAL SCHOLARSHIP, established by Mr. and Mrs. Willard B. Eddy, of Rochester, New York, in memory of their son. This scholarship carries a value of up to $4,000 over a four-year period and is awarded on the basis of academic achievement and character. This scholarship will be available for award again in 1962.

In certain years, secondary school students from Cayuga, Cortland, Onondaga, Oswego, and Seneca Counties are eligible to compete for the DAVID SHOVE HASTINGS SCHOLARSHIP, established by Mr. and Mrs. J. Murray Hastings in memory of their son. This scholarship will pay up to $3,000 over a four-year period, and will be available for award again in 1961.

The HONORABLE IRVING M. IVES SCHOLARSHIP, founded by the Norwich Pharmacal Company, is awarded in certain years, with preference given, first, to the son of an employee of the company and, second, to a resident of Chenango County. This scholarship will be available in 1960.

Sons of secondary school teachers in the State of New York should note the provisions of the scholarship which has been made available to them (next page).

Certain special scholarships are reserved by the donors for graduates of specified preparatory schools in New York State. The terms of the ELIZABETH R. FITCH SCHOLARSHIP stipulate that preference be given to graduates of the Westmoreland High School. The GEORGE E. DUNHAM SCHOLARSHIP is restricted to graduates of the Utica Free Academy, and the A. W. SOPER SCHOLARSHIP to graduates of the Rome Free Academy.

STATE SCHOLARSHIPS. The University of the State of New York provides in each assembly district a liberal number of Regents College Scholarships, based upon the results of a comprehensive examination given by the State Education Department each year, and yielding from a minimum of $250 to a maximum of $700 each

year, the actual amount depending upon the financial circumstances of the winner. Successful competitors may enter any approved college within the state. The Regents Scholarships for Engineering and Scientific Studies—with values of from $300 to $850—may also be used at Hamilton, either for the full four-year course or under the Cooperative Engineering Plan (page 65). Under the latter option, the student may receive scholarship assistance for the entire five-year program provided he completes the work for his engineering degree at an institution in New York State.

The winning of a state scholarship does not prevent a student from being granted a special or general scholarship by Hamilton College.

Pennsylvania

Candidates for admission who attend school in Bucks, Chester, Delaware, Montgomery and Philadelphia Counties should note the provisions of the PHILADELPHIA-WASHINGTON ALUMNI ASSOCIATION SCHOLARSHIP (see District of Columbia, above).

Sons of secondary school teachers in the state of Pennsylvania should note the provisions of the scholarship which has been made available to them (see below).

Virginia

Candidates for admission who attend school in Arlington and Fairfax Counties should note the provisions of the PHILADELPHIA-WASHINGTON ALUMNI ASSOCIATION SCHOLARSHIP (see District of Columbia, above).

Scholarships for Sons of Secondary School Teachers

Hamilton College has made three scholarships available in 1960 to the sons of secondary school teachers. One, with a value of up to $6,400 over a four-year period, is offered to sons of secondary school teachers in the state of Illinois. The other two carry a value of up to $4,800 and are offered in the states of New York and Pennsylvania.

GENERAL SCHOLARSHIPS

Any Hamilton undergraduate is eligible to apply for a general scholarship. However, the scholarships were established as an aid for those who find it difficult to meet the cost of a college educa-

tion and should not be sought by others. These grants are supported in part by the income from the more than seventy scholarship foundations listed on pages 120-121 and in part by the general funds of the College. They are awarded on the basis of need, scholarship standing, character, and salutary influence on the life of the College. Stipends range in amount from a few hundred dollars to total expenses for four years, depending on the student's academic record and need. In accepting the assistance of a scholarship, the holder is expected to consider himself pledged to perform all of his college duties creditably, to maintain a high standard of deportment, and to exercise strict economy. The following are the procedures and regulations which govern the awarding of general scholarships.

1. Hamilton is a member of the College Scholarship Service. Each freshman candidate for scholarship aid must file his application with that organization on a form furnished by the College. Upperclassmen candidates for scholarship aid will file their applications directly with the College.

2. Consideration of an application for scholarship aid cannot be given until the candidate has made application for admission to the College. The granting of admission in no way guarantees the granting of a scholarship.

3. Scholarship awards are credited against term bills, one-half in each semester.

4. A scholarship is awarded for a single semester but will automatically be renewed for the second semester of a college year if a student has a C average at the end of a semester, has no failure on his record, and has not been delinquent in attendance. After two semesters a new application must be filed.

5. Students under academic or social censure are not eligible for scholarships, and if such censure follows the granting of a scholarship, the scholarship is withdrawn.

6. A special or general scholarship may not be held in addition to a prize scholarship, but it may be awarded in part to supplement it.

7. No scholarship holder may maintain an automobile at the College without the express approval of the Associate Dean.

SPECIAL SCHOLARSHIPS

Hamilton College offers the following special scholarships for undergraduates who need aid and who meet the requirements set forth by the scholarship donors.

The B. T. BABBITT SCHOLARSHIP, founded by the Lillia Babbitt Hyde Foundation of New York City, is reserved for a student preparing for a medical career.

The donor of the EDWARD S. BABCOCK SCHOLARSHIP has specified that preference be given to members of the Emerson Literary Society.

The GEORGE A. CLARK SCHOLARSHIP is reserved for a candidate for the Presbyterian ministry, to be designated by the pastor and session of the First Presbyterian Church of Utica, or by the College.

The DR. EDWARD FITCH SCHOLARSHIPS IN THE CLASSICAL LANGUAGES, founded by E. Root Fitch, of the Class of 1886, are awarded annually to students who are registered for courses in either Greek or Latin (courses in translation not included). The awards are made on the basis of need, scholastic standing, character, and salutary influence on the life of the College.

The E. ROOT FITCH SCHOLARSHIPS, founded by E. Root Fitch, of the Class of 1886, are awarded annually to members of the Hamilton chapter of Delta Upsilon on the basis of need, scholastic standing, character, and salutary influence on the life of the College.

The MARCUS JUDSON SCHOLARSHIP is reserved for a student from the Presbyterian Church of Watertown, New York.

The LEAVENWORTH SCHOLARSHIP is available to a student or students bearing the surname Leavenworth.

The HENRY M. LOVE SCHOLARSHIP, established by William D. Love of the Class of 1909, provides a scholarship for relatives of Henry M. Love of the Class of 1883, or, when no such relative is in College, may be awarded to a senior in the Emerson Literary Society for graduate study leading to a career in law, medicine, journalism, teaching, or theology.

The WILLIAM DELOSS LOVE SCHOLARSHIP was established by William DeLoss Love, of the Class of 1909, Mrs. William D. Scranton, and others. In accordance with the wishes of the scholarship donors, preference is given to descendants of William DeLoss Love, of the Class of 1843.

The terms of the ANNIE L. MAC KINNON SCHOLARSHIP stipulate that

preference be given to a student whose record shows ability and interest in mathematics.

The S. B. STEERE SCHOLARSHIP was established for blood relations of the donor. If none appears, preference is given to candidates for the ministry.

LOANS

The THEODORE M. POMEROY LOAN FUND, established in 1916 with the purpose of "assisting worthy young men to acquire an education at Hamilton College," is now valued at about twenty-five thousand dollars. The loans are repayable by seniors within three years, interest at four per cent being computed from the time the student leaves college, and by other students before returning to college the following fall with interest at four per cent being charged from the time the loan is made.

The academic year 1959-60 will be the first full year of Hamilton's participation in the FEDERAL STUDENT LOAN FUND, established in 1958 by the National Defense Education Act. Any student interested in obtaining a loan under this act should write to the Secretary of Admission.

Loans are also available under the NEW YORK STATE HIGHER EDUCATION ASSISTANCE ACT, by which the State guarantees bank loans to undergraduates. Information about this act is also available from the College.

STUDENT EMPLOYMENT

The College and community offer opportunities for part-time employment to more than one-third of the student body. Individual earnings range from a few dollars to several hundreds, according to the kind of work done. The fraternity houses on the campus provide jobs which afford board or room for from five to ten men each. All other employment for freshmen is handled by the Secretary of Admission; for upperclassmen, by the Associate Dean.

2

ACADEMIC PROGRAM

Academic Requirements

Courses of Instruction

Planning for a Career

. . . An interest aroused and established in the whole round of lore and life, a heart responsive to the multiformity of knowledge and endeavor—this is the best preliminary preparation for any and every particular pursuit. If a too early partialism crowds this aside, it steals away that horizon beyond his peculiar task which for the relief of his intellect and for the health of his heart, every man needs. When professionalism becomes a vice it is because it looks meagerly and torpidly upon all that does not fit its own furrow, is only practical at one angle. . . . True education is **eduction**—*the outdrawing of the utmost capacity. The market value of it is in its production of whole men, wide-based and well-builded, such as are more and more demanded for the enlarging and compacting partnerships of mankind.*

—Melancthon Woolsey Stryker,
President 1892-1917

Academic Requirements

REQUIREMENTS for GRADUATION

The basic requirement for graduation is the completion of a course of study designed to bring to the student the essential virtues of a liberal arts education. The underlying principles may be characterized as breadth, depth, and freedom. Breadth, represented by guided elective courses in six prescribed areas, introduces the student to the major fields of knowledge as represented by the traditional liberal arts philosophy. Depth, represented by concentration requirements, enables the student to acquire something of a real mastery in a specific subject. Freedom, represented by free electives, gives the student opportunities to choose courses which for any one of a number of reasons appeal to him and promise to add to his development. Throughout, the prime objective is intellectual and spiritual development.

Credit Hours Required

To QUALIFY for graduation from Hamilton College a student must have a total of 126 semester-hour credits. A semester hour usually represents one hour per week of classroom work (or from two to fours hours of laboratory work) throughout half of the college year.

All courses carry certain hours of credit each semester. Most non-science courses carry three hours; all laboratory courses in Anthropology, Biology, Chemistry, Geology, and Physics carry four hours; Public Speaking courses carry one or two hours; and Choir carries one hour.

The normal program for a freshman, sophomore, or junior consists of five three-hour or four-hour courses in addition to the required public speaking work. Any deviation from this pattern is subject to the approval of the Academic Council. A senior may carry only three three-hour or four-hour courses in addition to the required work in senior study and public speaking. No student is allowed to carry a schedule of more than 21 or fewer than 13 hours without the approval of the Faculty.

Basic Courses Required

To qualify for graduation, a student must satisfactorily complete the amount of work prescribed for each of six attainments essential to a liberal arts education:

I

A SUPERIOR COMMAND AND COMPREHENSION OF THE ENGLISH LANGUAGE

A. *Command and comprehension of the English language as a written medium.* Either English Composition 11-12 or English Composition 13-14 is to be taken in the freshman year.

B. *Command and comprehension of the English language as an oral medium.* Public Speaking 11-12 is to be taken in the freshman year and Public Speaking 21-22 in the sophomore year. One hour in each term of the junior and senior years is to be selected from courses above 21-22, except that supervised extracurricular work not done for college credit, such as student forums, debating, and extension speaking, may be substituted for course work.

II

A REASONABLE COMMAND OF ONE FOREIGN LANGUAGE

The student must complete course 21-22 in French, German, Latin, or Spanish, or a course numbered above 21-22 in Greek. This work must be begun in the freshman year and continued without interruption until completed.

III

AN UNDERSTANDING OF THE NATURE OF REASONING AND AN ACQUAINTANCE WITH THE NATURAL WORLD AS KNOWN THROUGH THE SCIENCES

Here the student has an option of two plans: *Plan I*—completion of 11-12 in Biology, Chemistry, Geology, or Physics, and a second course in the same science for which the introductory course is a prerequisite; *Plan II*—completion of 11-12 in Biology, Chemistry, Geology, or Physics, and a second course, either one in Mathematics or Philosophy 11-12. Either of the two courses required under Plan II may be taken first, or they may be taken in the same year. Work under either plan must be begun not later than the sophomore year and be completed by the end of the junior year.

IV

AN ABILITY TO ENJOY AND UNDERSTAND THE CREATIVE ARTS AND A KNOWLEDGE OF THE WORLD'S ARTISTIC MASTERPIECES

One course is to be selected from Art 23-24, English Literature 21-22, Music 13-14, Music 21-22, or from foreign language courses

numbered above 21-22 with the exception of French 29-30, German 29-30, Spanish 29-30, and courses in foreign literature in translation. This requirement must be satisfied by the end of the junior year.

V

A KNOWLEDGE OF THE INTER-RELATION OF MAN AND SOCIETY, PAST AND PRESENT

The student must complete one course from each of two different departments. The first is to be elected from 11-12 courses in Anthropology, Economics, Government, or History; the second, from Education 21-22, or from courses numbered 21-22 or higher in Ancient Civilization, Anthropology, Economics, Government, History, and Psychology except Ancient Civilization 35-36, Anthropology 27-28, and Economics 25-26. The two courses for this requirement may not be taken in the same year. The requirement must be satisfied by the end of the junior year.

VI

AN UNDERSTANDING OF THE INTELLECTUAL BASES OF ETHICAL JUDGMENT

The student must complete Philosophy and Religion 21-22, 23-24, or 25-26 by the end of his junior year.

Area of Concentration Requirement

To qualify for graduation, students must complete prescribed study in an area of concentration. The departments under which a student may develop an area of concentration are Anthropology, Art, Biology, Chemistry, Economics, English Literature, French, Geology, German, Government, Greek, History, Latin, Mathematics, Music, Philosophy and Religion, Physics, Psychology, and Spanish. In addition, a Biology-Chemistry concentration is possible.

Effective with the Class of 1961, the normal concentration consists of four year courses and senior study within a department. The department may specify particular courses to be required. One established inter-departmental concentration, Biology-Chemistry, is possible. Other inter-departmental concentrations involving less than four courses in any one department may be arranged with the approval of the departments concerned and the Academic Council.

The Biology-Chemistry concentration is offered to those students wishing to give special attention to the coordination of these two fields. A student electing this program must therefore be prepared

to study advanced topics in both biology and chemistry. Only students approved by both the departments of Biology and Chemistry may elect this concentration.

The Biology-Chemistry concentration consists of Biology 11-12, 21-22, a third year of biology, Chemistry 11-12, 21-22, 31-32, and Physics 11-12. All courses except the third year of biology must be completed by the end of the junior year. The third year of biology is taken in the senior year concurrently with senior study (see below). The senior study accompanying this concentration consists of readings and conferences supervised by both departments.

A student selects his area of concentration at the end of his sophomore year. He must have completed at least a year course in the department in which he wishes to concentrate and must have received an average of 70 or higher for the two semesters combined. The course must be acceptable for the satisfaction of the concentration requirements.

A student who is not eligible for an area of concentration at the end of his sophomore year will be dropped from college.

The courses planned to satisfy the concentration requirement must be approved by the department at the time of election and all subsequent changes of course elections within the area of concentration require the approval of the department. Students may change areas of concentration only with the approval of the departments concerned and the Dean. Each student is required to take at least one course during his senior year in the department under which he is concentrating.

Comprehensive Examinations

To develop in its students a real sense of responsibility for their own learning is a major educational objective of the College. In all courses the encouragement of the growth of academic initiative among the students is stressed. Certain programs are designed specifically to encourage independent work among all juniors and seniors. Two of the more important are the senior comprehensive examination and senior study, first effective for the class of 1961.

To qualify for graduation a senior is required to pass a comprehensive examination in his department of concentration. The examination includes questions derived from departmental courses, from pertinent supplementary material of related courses, and from a reasonable amount of independent reading. It is designed to test

the student's powers of synthesis and independent thought rather than his retention of detailed factual material.

The examination is given in the spring term on Thursday and Friday, ten days before the beginning of final examinations. It lasts for six hours, at least four of which are devoted to written work. Such part of the other two hours as the department decides may be devoted to oral testing. If his performance on the comprehensive examination is acceptable, the student may be excused by the department from taking final examinations in his departmental courses.

If a student fails the comprehensive examination, he will not be graduated with his class. If he meets all other requirements for graduation, he will be granted one re-examination in the comprehensive which may be taken either during the last two weeks of the following September by arrangement with the department or at the next regularly scheduled time for comprehensives. No student will be granted more than one such re-examination. A fee of $50 is charged for this second examination.

Senior Study

As a supplement to the comprehensive examination in promoting active interest in and consequent mastery of the field of concentration, the student follows a program of guided independent work beginning formally at the end of the sophomore year immediately after the election of the field of concentration. Under the guidance of the department, the student is encouraged first to undertake independent study and reading during the summer after both sophomore and junior years and during the junior year itself.

During the senior year approximately one-fifth of the time normally directed to class attendance in courses is released for independent, although guided, study. The specific nature of this study and the technique for implementing it vary from department to department, but the common stress is on the student's responsibility to gain mastery in his major field, both in and out of course work. Throughout the study the objective is to direct the student's thinking toward an understanding of the inter-relationship among his courses in the field of concentration and in closely related courses.

Senior study is granted three hours of credit each semester. The grade earned in the comprehensive examination is recorded as the grade for senior study. Otherwise, senior study is not a "course" in

the usual sense of the word, but a program designed to encourage the student to develop academic initiative and to further his self-education.

Grade Requirement

To qualify for graduation, a student must have obtained a grade of 70 or higher in at least one-half of all the work completed at Hamilton and have a cumulative average of at least 75 in all courses taken in his department of concentration during the junior and senior years.

All courses are graded each semester on a scale of 100. A grade of 90 or above is reported as A; 80-89, B; 70-79, C; 60-69, D; 40-59, F; and below 40, FF. The passing mark is 60. In 11-12 and 13-14 courses in German and Spanish, and in 11-12 courses in Greek and Latin, a student who fails the first semester and, in the same year, passes the second semester, will receive a revised first semester grade of 60. If a student passes the first semester and fails the second semester, the failing grade of the second semester will be entered as the grade for both semesters.

In the 11-12 courses in English Composition and Philosophy and the 21-22 course in Psychology, a student who fails the first semester and, in the same year, passes the second semester, may, upon recommendation of the department, receive a revised first semester grade of 60. A student who passes the first semester and fails the second is not required to repeat the first semester.

With these exceptions, all final semester grades are permanently recorded and may not be altered.

To qualify for graduation, a senior must pass all courses taken in the final semester of his senior year.

Residence Requirement

To earn a degree from Hamilton a student must be in residence for at least two years (a minimum of 64 hours of credit) and must spend his final semester in residence.

Physical Education Requirement

To qualify for graduation a student must complete six semesters of work in Physical Education.

Chapel Attendance

Freshmen, sophomores, and juniors are required to attend public worship each Sunday evening in the Chapel. However, students who, for reasons of personal conscience, desire to attend services other than those at the College may secure permission to do so. For seniors with clear attendance records, attendance at the Chapel service is voluntary. To qualify for graduation a senior must have removed all previous delinquencies in Chapel attendance.

FRESHMAN PROGRAM

Each freshman makes out a schedule of courses for the year in consultation with his advisor during the orientation period before classes begin. The objective is to begin satisfaction of the breadth requirements of the curriculum at the same time that due attention is paid to the vocational and academic interests of the student. To this end the freshman academic program comprises required courses, guided electives, and possibly a free elective according to the pattern below.

Freshman Schedule

Course	Semester hours
English Composition 11-12 or 13-14 (See 1 below)	3-6
Forelgn Language (See 2 below)	3
First Guided Elective (See 3 below)	3-4
Second Guided Elective (See 3 below)	3-4
Free Elective (See 1 and 4 below)	3-4
Public Speaking 11-12	1
Physical Education	
Total Hours	16-18*

(1) If the student is selected for English Composition 13-14, he omits the free elective.

(2) French, German, Greek, Latin, or Spanish may be elected. The student is encouraged to continue a language studied in secondary school. Assignment to the proper level is made by the department on the basis of the previous record and a placement test.

† In addition, approved freshmen may elect Choir one hour each term.

(3) Guided electives are:

Sciences: Biology 11-12, Chemistry 11-12, Geology 11-12, Physics 11-12

Mathematics: 11-12, 15-16

Philosophy and Religion: 11-12

Social Studies: Anthropology 11-12, Economics 11-12, Government 11-12, History 11-12

Music 13-14: (Requires previous knowledge of music)

(4) The free elective may be a second foreign language, a third course from the guided electives, or one of the following:

Ancient Civilization 11-12, Art 11-12, or Music 11-12

* In addition, approved freshmen may elect choir, one hour each term.

SOPHOMORE and UPPERCLASS PROGRAM

Each student elects courses for his sophomore, junior, and senior years so that he will satisfy the six requirements for basic liberal arts education (pages 24-25) and the concentration requirement (page 25). In addition, he chooses free electives, usually about one-third of his total program, to complete the total number of hours required for graduation.

Cooperative Engineering Program

A student interested in the cooperative program in engineering (page 65) follows a program of studies which will (1) complete the six basic liberal arts requirements, (2) complete the total hours requirement of three years at Hamilton, and (3) satisfy the engineering school's requirements. The concentration requirement is completed at the engineering school. While the three cooperating schools—Columbia, M.I.T., and R.P.I.—have slightly different requirements for admission, their basic patterns are similar. In addition to the Hamilton requirements, they look for certain courses in chemistry, physics, and mathematics. A Hamilton faculty member, liaison officer with the engineering schools, reviews the programs of pre-engineering students.

Junior Year Abroad

Qualified students may, with the approval of the Faculty, spend the junior year studying in a foreign country and receive full credit toward a Hamilton degree. Those who are interested should consult the Dean during the first term of the sophomore year.

Hamilton College Junior Year in France

Hamilton College sponsors a Junior Year in France program. Enrollment in the program is limited to students who, for reasons of their preparation and interests, will benefit the most by studying French language and civilization. To qualify, students must have an over-all B average by the end of their sophomore year. The program is directed, in France, by a member of the department of Romance Languages. Students will take a six weeks preliminary session in Biarritz in September and October, and then move to Paris for the academic year.

Independent Coverage of Course Work

In support of the belief that the undergraduate should be encouraged to assume responsibility for his own education, it is possible for an able and ambitious student to study by himself the material of a course and upon demonstrating his mastery of the subject to receive certain academic privileges. Such study is usually done during the summer. The student must secure permission in advance to undertake this independent coverage of course work by formal petition approved by the department concerned and the Academic Council. Certification of achievement likewise requires recommendation by the department and approval by the Council.

The following academic advantages are available through this independent work.

A. Waiving of course prerequisites, thus allowing the student to move more rapidly into advanced courses.

B. Waiving of all or part of a distribution requirement, thus allowing the student to do a greater amount of advanced study or to take additional courses in other areas.

C. Attainment of hours of credit toward a degree, thus allowing the student to concentrate on fewer courses than he would normally take or to study additional courses beyond those required for graduation.

D. Attainment of hours of credit for a course failed without repeating class attendance in the course. The original failing grade, however, remains on the record.

Credit under C and D is granted only after a formal written examination administered by the department. A fee of $60, not refundable under any circumstances, is charged for the privilege of taking this examination.

Independent Study

This is a program for selected juniors and seniors who wish to carry on independent study at an advanced level. Students will be expected, in lieu of a regular course, to work steadily on a project or a reading program. Petition for admission to this program will be submitted to the Dean's Office by May 1. As a prerequisite, the student must have at least two courses in the department in which he proposes to work, and the approval of the chairman of that department. No student may pursue more than one program of Independent Study in a year.

ACADEMIC REGULATIONS

Electives

Courses for the next year are chosen at the end of the freshman, sophomore, and junior years. Elective cards must be left at the Dean's Office by a designated date in May. A fee of two dollars, increased by one dollar for each day of delay, will be charged for tardy election of courses.

A student may change his choice of courses only by permission of the Academic Council and must pay a fee of two dollars. Only exceptionally is a change permitted after the first week of a semester.

Most courses are continuous through the year and must be elected accordingly.

After the freshman year, a student may take any elective course offered to his own or a lower class if he has satisfied its prerequisites, except that seniors may not elect more than one course below the 31 level and may take an 11-12 course only with the permission of the department chairman.

A student who elects an elementary course in a modern foreign language after the freshman year is expected to continue the second course in that language. Exceptions are made only with the written consent of the chairman of the department concerned. No credit will be given for the first semester alone of any elementary language course.

Elective courses must be so chosen that the student will be making continuous progress toward the satisfaction of the requirements for graduation. A student who after admission decides not to remain in college until graduation is not excused from compliance with this rule.

Deviations from the course programs outlined above may be per-

mitted when an individual student can demonstrate that his interests and abilities will be better served thereby. In particular, a student who satisfies the Board of Review that he has by other means fulfilled any of these requirements may be permitted by action of the Academic Council to elect subjects other than those listed.

Summer School Credits

To insure proper supervision and validation, a student who desires to receive credit for work done in a summer school should submit his program in advance for approval by the appropriate departmental officer and the Academic Council. Only summer session courses which are passed with a grade at least one level higher than the lowest passing grade are entitled to transfer credit.

Degrees

All students receive at graduation the degree of Bachelor of Arts. Degrees in course are conferred only upon those who are present to receive them, unless the Faculty has taken special action authorizing their award *in absentia*.

COURSE NUMBERING

FOR EACH COURSE, the numbering indicates its level, the semester in which it is offered and whether it is a semester or year course.

Normally, courses numbered 11-19 are taken by freshmen; 21-29, by sophomores; 31 and above, by juniors and seniors; 41 and above, by seniors only.

Odd-numbered courses are offered in the first semester and even-numbered courses in the second, except where otherwise indicated.

A single number preceding a course description (e. g., 25) indicates that the course may be elected for a single semester. Two numbers separated by a hyphen (e. g., 25-26) indicate that the course must normally be elected for the year.

ANTHROPOLOGY

Mr. Count

11-12. *Elements of Anthropology.* Man's biological origins; the structures of human society; the beginnings of cultural traditions.

21-22. *Cultural Geography and History.* The principles of human geography; culture areas, culture patterns, "peoples." The shaping of the cultural traditions that have produced civilizations. Required of all majors. Prerequisite, any 11-12 course in a social studies department. Alternates with 27-28.

23-24. *Introductory Sociology.* The social institutions of man, particularly as expressed in the United States. Such phenomena viewed also in their wider historical setting. Prerequisite, one year-course in a social studies department.

27-28. *Physical Anthropology.* The extensive treatment of human evolution; man's races; growth of the human body; constitutional types; social biology. Prerequisite, Biology 11-12. Previous or concurrent election of Biology 21-22 strongly recommended. Three class periods and three hours of laboratory each week. Alternates with 21-22. (Not offered in 1959-60.)

31-32. *The Science of Language.* The principles of linguistics; language families of the world, and their linguistic patterns; intro-

duction to the Indo-European languages. Prerequisite, advanced standing in Anthropology (at least two previous courses in the department), or a recommendation from the department of philosophy and religion, the department of history, or a language department. Alternates with 33-34. (Not offered in 1959-60.)

33-34. *The Science of Mythology.* A study of symbolisms as culture products. The symbolisms bequeathed to Occidental civilization, considered in the context of culture history. Mythopoea in North America, particularly the United States. Prerequisite, advanced standing in Anthropology (at least two previous courses in the department), or a recommendation from the department of philosophy and religion, the department of history, or a language department. Alternates with 31-32.

ART

Messrs. Parker and Penney

11-12. *Creative Painting and Drawing.* Lectures and demonstrations of the methods and materials employed by professional artists coordinated with the individual student's work. Open to approved freshmen. Credit, three hours each semester for nine studio hours. Instructor, Mr. Penney.

21-22. *Advanced Painting and Drawing.* Figure, landscape, and still-life painting and drawing in various media. Special projects assigned. Prerequisites, 11-12 and the instructor's consent. Credit, three hours each semester for nine studio hours. Students to supply their own materials. Instructor, Mr. Penney.

23-24. *Introduction to the History of Art.* A survey of the more important monuments and periods. First semester: from prehistoric times through the Middle Ages. Second semester: from the Renaissance to the present. Open to sophomores. Instructor, Mr. Parker.

31. *Modern European Art.* The leading figures and movements in European art from the eighteenth century to the present. Prerequisite, 23-24. Constitutes a year course with 32. Instructor, Mr. Parker.

32. *Principles of Art.* Formal analysis of works of art, methodology of art criticism, and an examination of contemporary trends in empirical aesthetics. Prerequisite, 31. Constitutes a year course with 31. Instructor, Mr. Parker.

33-34. *Renaissance Painting, Architecture, and Sculpture.* First semester: the Renaissance in Italy. Second semester: the Renaissance

in Northern Europe and Spain, Prerequisite, 23-24. Students strongly advised to take History 35-36 concurrently. Alternates with 35-36. (Not offered in 1958-59.)

35. *Fundamentals of Architecture.* Architectural monuments of all periods with special emphasis on structure, plans, utility, and style. Prerequisite, 23-24. Alternates with 33. Constitutes a year course with 36. Instructor, Mr. Parker.

36. *American Art.* From Colonial times to the present. Prerequisite, 23-24. Alternates with 34. Constitutes a year course with 35. Instructor, Mr. Parker.

BIOLOGY

Messrs. Hess, Rogers, Gerold, and J. F. Ellis

All courses in Biology require two hours in the lecture room and four hours in the laboratory each week.

11-12. *General Biology.* An introduction to the study of plant and animal life, with particular attention to the structure and functions of organisms. Course designed to serve both as a source of general knowledge and as a background for advanced work in the biological sciences. Laboratory work based on a study of plants and animals selected to illustrate the functions and principles involved. Open to freshmen. Instructors, Messrs. Hess, Rogers, Gerold, and Ellis.

21. *Embryology.* A study of the development of representative forms of the chief classes of vertebrates, with particular emphasis on the embryology of the frog, chick, and mammal. Prerequisite, 11-12. Instructors, Messrs. Rogers and Gerold.

22. *Zoology of Vertebrates.* The discussion and comparative study of a series of vertebrates, tracing the progressive modifications of the organ system from fishes to mammals, with special emphasis on mammalian anatomy. Prerequisite, 21. Instructors, Messrs. Rogers and Ellis.

31. *Physiology.* A study of the more fundamental problems of general physiology and the functions of the organ systems of animals. Prerequisites, 21-22 and Chemistry 11-12. Instructor, Mr. Gerold.

32. *Experimental Zoology.* Readings, conferences, and laboratory work on problems of experimental zoology. Prerequisite, consent of the instructor. Instructor, Mr. Rogers.

33. *Genetics.* A study of heredity and variation in animals and plants, including a discussion of heredity in man. General principles

of evolution considered in the light of evidence from experimental genetics. Lectures, laboratory, and reports on special assignments and problems. Prerequisite, 11-12. Instructor, Mr. Ellis.

34. *Histology.* An analysis of the structure, function and composition of mammalian tissues. The laboratory exercises include microtechnique and tissue identification. Prerequisite, 21-22. Instructor, Mr. Gerold.

36. *Microbiology.* A study of micro-organisms with special emphasis on bacteria molds and viruses. Special attention in the laboratory given to pure culture methods, physiological activities of organisms, and applied microbiology. Prerequisites, 11-12 and Chemistry 11-12. (Not offered in 1959-60.)

It will be the policy of the department to accept for six hours of transfer credit and its equivalent of two semesters of optional Biology concentration courses the course in Invertebrate Biology offered during the summer at the Marine Biological Laboratories, Woods Hole, Mass.

CHEMISTRY

Messrs. Yourtee, Denney, Cratty, and Grant

Students who wish to prepare for graduate study in Chemistry are advised to elect the following courses to supplement the concentration requirements: Chemistry 37-38, 41 and 42; Physics 21-22; and course work in German. This program meets the minimum requirements of the Committee on Professional Training of the American Chemical Society.

11-12. *General Chemistry.* An introductory study of fundamental concepts and principles of chemistry, together with applications to some of the common elements and their compounds. In the second semester, the laboratory work emphasizes qualitative analysis. Previous experience in chemistry is not required, but high school preparation in either chemistry or physics is desirable. Open to freshmen. Three class periods and three hours of laboratory a week. Instructors, Messrs. Yourtee, Denney, and Cratty.

21-22. *Analytical Chemistry.* The theory and practice of inorganic quantitative analysis. Laboratory experiments include calibration and techniques of common analytical equipment, and typical gravimetric and volumetric methods of analysis. Introductory experiments in physical chemistry supplement classroom discussion of the

theoretical topics involved, such as solutions, indicators, equilibria, electrochemistry, and the structure of matter. Two class periods and four hours of laboratory a week. Prerequisite, 11-12. Instructors, Messrs. Cratty and Denney.

31-32. *Organic Chemistry.* An introduction to the chemistry of compounds of carbon. The more important groups of aliphatic and aromatic compounds; lectures and recitations, with closely coordinated laboratory work on the preparation of typical compounds. Open to juniors. Three class periods and six hours of laboratory a week. Prerequisite, 11-12. Instructors, Messrs. Yourtee and Grant.

33-34. *Physical Chemistry.* The theoretical background of chemistry in general, from the viewpoints of thermodynamics and kinetics. Applications developed through the solution of problems, both in the classroom and in the laboratory. Three class periods and three hours of laboratory a week. Prerequisites, 21-22, Physics 13-14, and Mathematics 25-26. Instructor, Mr. Denney.

37. *Advanced Organic Chemistry.* A study of such topics as functional groups, rearrangements, isomerism, mechanisms of reactions, organo-metallic compounds, and heterocyclic compounds. The laboratory work is devoted to advanced syntheses and techniques. The use of library sources is required. Two class periods and four hours of laboratory a week. Prerequisites, 21-22, 31-32. Instructor, Mr. Grant.

38. *Advanced Organic Chemistry.* The application of fundamental principles, theories and techniques to the identification of organic compounds. The use of library sources is required. Two class periods and four hours of laboratory a week. Prerequisites, 21-22, 31-32. Instructor, Mr. Yourtee.

41. *Advanced Inorganic Chemistry.* A study of topics selected with the purpose of emphasizing periodic relationships, atomic structures, valence, chemical bonding, intermetallic compounds and radioactivity. The preparation and purification of inorganic compounds. Two class periods and four hours of laboratory a week. Prerequisites, 21-22 and Physics 13-14. Instructor, Mr. Cratty.

42. *Advanced Quantitative Analysis.* A study and application of general methods and advanced techniques of quantitative analysis. Analyses of ores and alloys are made. Instrumental methods include potentiometric titrations and colorimetry. One class period and five hours of laboratory a week. Prerequisites, 21-22 and Physics 13-14. Instructor, Mr. Denney.

CLASSICAL LANGUAGES

Greek

Mr. H. S. Long

11-12. *Elementary Greek.* Thorough grounding in grammatical forms and syntax. Written and oral exercises, leading to the translation of easy passages from Plato and Herodotus. Open to freshmen.

21-22. *Intermediate Greek.* Plato's *Apology and Crito.* Selections from the lyric poets. Several books of Herodotus. Some attention given to the history of Greek literature and to prosody. Prerequisite, 11-12 or its equivalent.

31-32. *Greek Drama.* Intensive study of one play each of Euripides, Sophocles, and Aeschylus, followed by rapid reading of other tragedies. Aristophanes similarly studied. Prerequisite, 21-22. (Not offered in 1959-60.)

33-34. *Advanced Reading.* Extensive reading in prose writers and poets, according to the needs and interests of the students. Prerequisite, 21-22.

Latin

Mr. Mattingly

11-12. *Introductory Course in Latin Language and Literature.* First semester: review of forms; translation of simple prose; emphasis upon comprehension of the sentence and systematic mastery of vocabulary. Second semester: reading in such prose authors as Sallust, Pliny, Seneca; emphasis upon the student's comprehension of connected prose. Open to freshmen with secondary school preparation; without secondary school preparation, admission with consent of instructor.

21-22. *Readings in Latin Prose Writers.* First semester: continued emphasis upon comprehension and the mastery of vocabulary; attention to the reproduction in translation of different Latin prose styles as represented by such authors as Cicero, Tacitus, Quintilian, Augustine. Second semester: continuation of the work of the preceding semester with some study of rhetorical theory and the historical background of the authors read. Prerequisite, 11-12 or superior secondary school preparation.

31-32. *Latin Poetry.* Principally satire and epigram. Translation, study of metrical forms, reading in secondary sources. Prerequisite, the instructor's consent. Normally alternates with 33-34. (Not offered in 1959-60.)

33-34. *Latin Poetry.* Principally lyric, elegiac, and epic. Translation, study of metrical forms, ancient literary criticism. Prerequisite, the instructor's consent. Normally alternates with 31-32.

Ancient Civilization

Messrs. Mattingly and H. S. Long

11-12. *Greek Literature in Translation.* Intensive study of some of the works of Homer, Herodotus, Aeschylus, Sophocles, Euripides, Thucydides, and Plato. Attention given to the history of Greek literature and to the ethical, political, and religious ideas of the Greeks. Open to freshmen and sophomores only. Instructor, Mr. Long.

21-22. *Greek Historical and Political Thought.* The history of the fifth century B.C., studied chiefly from the literary sources in translation. In the second semester, the political theories of Plato, Aristotle, and others, interpreted in the light of Greek history. Particular attention is given to the correlation between political theory and political practice, and to forms of government both as abstract entities and as ideals that govern human behavior. Instructor, Mr. Long.

33-34. *Roman Social, Political, and Legal Institutions.* Roman history from the regal period to the late Empire, with emphasis upon social, political and legal institutions. Textbooks and readings in translation. Open to sophomores. (Not offered in 1959-60.)

35-36. *Classical Mythology and Aesthetic Theory in the Renaissance.* A survey of changing patterns of interest in the stories of ancient gods and heroes exhibited in the fine arts in general and especially in the vernacular writings of European national cultures, read in translation. Attention to the theories of art and literature as reflecting the opinions of Aristotle, Cicero, Horace, Quintilian, etc. Primarily for majors in English and the modern foreign languages. Instructor, Mr. Mattingly.

ECONOMICS

Messrs. Gambs, Wertimer, and Brown

11-12. *Introduction to Economics.* First semester: a study of the organization of unplanned economies and of major theories seeking to explain their functioning. Second semester: a discussion of the economic problems facing a modern industrialized society. Instructors, Messrs, Gambs and Brown.

21. *Industrial Relations.* A study of social and economic problems centering on American labor and the employer-employee relationship; collective bargaining; the labor market; wage theory and public policy; labor-relations legislation; a brief history of unionism; the role of trade unionism in a democracy. Prerequisite, any 11-12 course in a social studies department. Instructor, Mr. Gambs.

22. *The Role of Government in Economic Affairs.* A brief history and survey of governmental control of economic activity; detailed study of several areas of intervention; an attempt to evaluate the proper functions of government in a free economy. Prerequisite, any 11-12 course in a social studies department. Instructor, Mr. Gambs.

25. *Accounting.* An elementary study of how the financial records of a business firm are usefully classified, analyzed, and interpreted. Emphasis is placed on the theory and function of accounting with bookkeeping techniques introduced as a means to this end. Instructor, Mr. Wertimer.

26. *Corporation Finance.* Forms of business organization with predominant emphasis on the modern corporation, its nature and financial problems. Instructor, Mr. Wertimer.

31. *International Economics.* The relation of international trade to the national income, economic welfare and rate of growth of the world's trading nations. The structure of world trade. Current issues of commercial policy. International monetary problems. International economic cooperation. United States international economic policy. Prerequisite, 11-12. Instructor, Mr. Brown.

32. *Economic Development.* Problems facing economically underdeveloped countries as they attempt to stimulate rapid economic expansion. A theoretical analysis of economic development. Case studies of selected countries. The impact of world economic development on the United States. The contribution of the more highly

developed nations towards the growth of underdeveloped countries. Prerequisite, 11-12. Instructor, Mr. Brown.

33-34. *Intermediate Economic Theory.* First semester: applications of supply and demand analysis; the theory of the firm; the theory of consumer behavior; perfect *vs.* imperfect competition; the theory of economic welfare. Second semester: measuring national income and production; the theory of income determination; the requirements for sustained economic growth; business cycle theory. Prerequisite, 11-12. Instructor, Mr. Brown.

37-38. *Money, Banking, and Public Finance.* First semester: the monetary aspects of the modern economy, with special reference to the organization of banking in the United States and to the theory of money. Second semester: a study of the principles and practices involved in taxation, public-debt management, and other financial problems of our federal and local governments. Prerequisite, 11-12. Open to juniors. Instructor, Mr. Wertimer.

41-42. *Seminar in Economics.* First semester: a review of economic theory from the time of the mercantilists to the present. Second semester: discussion of two or three major contemporary issues in the field of economics. Open to seniors and selected juniors who have had at least two previous courses in economics, one of which must be 11-12. Instructor, Mr. Gambs.

EDUCATION

Mr. J. F. Hunt

21-22. *History, Philosophy, and Principles of Education.* A historical and comparative study of the major tendencies and characteristics of society in western nations as they affect education and are affected by educational ideals and the structure of educational systems, with special emphasis upon problems of education in a free society. Special problems of secondary and junior high school education are examined during the second semester. Open to sophomores. Prerequisite, any 11-12 course in a social studies department.

31-32. *Educational Psychology: Measurements and Evaluation.* First semester: the psychological basis of educational theory and practice; the study of the psychology of adolescence and closely allied subjects. Second semester: the theory of educational measurements and evaluation; methods and materials relating to specific academic subjects; practice in the administration of tests; elemen-

tary statistical methods. Prerequisite, 21-22 or the instructor's consent. The previous or concurrent election of Psychology 21-22 is recommended.

33-34. *Secondary School Methods and Materials; Observation and Student Teaching.* A detailed study of secondary school methods, materials, and classroom techniques, including seminar work in methods of teaching specific academic subjects, constitutes approximately one-third of the work of the year (two hours credit); through the cooperation of local schools, each member of the class is given opportunity for observation and supervised student teaching (four hours credit). Open to seniors approved by the department and by the Board of Review. Approval determined by the quality of previous work in Education and in the field in which the candidate is preparing to teach. Prerequisites, 21-22 and 31-32.

Preparation for Teaching. Undergraduates who expect to become teachers should discuss their plans with the department as early as possible in their college career, in order that they may be guided in selecting those courses that will best prepare them to meet the requirements of their prospective profession (page 66).

ENGLISH

English Composition

Messrs. Nesbitt, Johnston, Lindley, Barrett, Kessler, Crossett, Pinney, and Briggs

Only one course in English Composition may be taken in any one year.

11-12. *Freshman English Composition.* The principles of English composition and the practice of writing. Themes and conferences; readings in selected masterpieces. Instruction in writing, largely individual. Either 11-12 or 13-14 required of all freshmen. Instructors, the English Composition staff.

13-14. *Seminar in Reading, Writing, and Speaking.* The intensive study of selections from such classics of literature and philosophy as Homer, the Bible, Shakespeare, Milton, Plato, and Mill. Writing and group discussion based on this reading. Sections limited to twelve freshmen each. Course may be substituted for English Composition 11-12 and one elective. Credit, twelve semester hours. Instructors, Messrs. Crossett and Briggs.

31-32. *Expository Writing.* The theory of exposition; constant practice in writing clear and logical expository prose. Study of selected specimens of exposition. Prerequisite, 11-12 or 13-14. Open to juniors. Enrollment limited. Instructors, Messrs. Nesbitt, Kessler, and Briggs.

33-34. *Fiction and Poetry.* Study and practice of literary composition. Stories, plays, and poems by members of the class to be submitted at regular intervals and criticized by the whole group and the instructor. Recent poetry, short stories, and novellas assigned for close analysis. Open to juniors. Limited to fifteen. Offered in alternate years. (Not offered in 1959-60.)

English Literature

Messrs. Nesbitt, Johnston, Lindley, Barrett, Kessler, Crossett, and Pinney

21-22. *Introduction to English Literature.* Study and analysis of selected works of major writers in chronological order from the Middle Ages to the present. Prerequisite, English Composition 11-12 or 13-14. Instructors, Messrs. Nesbitt, Johnston, Lindley, and Pinney.

31-32. *American Literature.* A close study of principal works in the prose and poetry of the United States from 1830 to the present. Prerequisite, 21-22. Instructor, Mr. Kessler.

33-34. *The Literature of the English Renaissance Through Milton.* The growth of Christian Humanism as reflected in the work of major Renaissance writers, particularly Spenser, Bacon, and Milton. Other authors of the period, such as Marlowe, Donne, Jonson, and Hobbes, as well as minor writers within and without the tradition. The place and influence of the classics in the Renaissance. Prerequisite, 21-22. Instructor, Mr. Crossett.

35-36. *The Literature of the Neo-Classic Period:* 1660-1800. The rise of neo-classicism in England and its influence on imaginative literature and criticism from Dryden to Blake. The development of modern prose style, the rise of the periodical essay, and the eighteenth-century novel. The beginnings of romanticism. Prerequisite, 21-22. Instructor, Mr. Johnston.

37-38. *Nineteenth Century Literature.* Study of works representative of the thought and literary art of major nineteenth-century writers, particularly Jane Austen, Wordsworth, Shelley, Carlyle,

Dickens, Browning, Arnold, and George Eliot. Prerequisite, 21-22. Instructors, Messrs. Nesbitt and Lindley.

41-42. *Anglo-Saxon; Middle English.* First semester: an introduction to the language and literature of England before the Norman Conquest. Study based on an Anglo-Saxon reader, accompanied by lectures on the history, structure, and vocabulary of the English language. Second semester: Chaucer, his century, and his contemporaries. Reading of *The Canterbury Tales, Troilus and Criseyde,* and some minor poems. Open to juniors. Offered in alternate years. Instructor, Mr. Lindley.

43-44. *Elizabethan and Jacobean Drama.* Readings in English plays from the beginnings to the closing of the theatres in 1642, with particular attention to Shakespeare and the chief questions in Shakespearean criticism and scholarship. Open to seniors who have completed with a grade of B at least one year-course in this department. Instructor, Mr. Barrett.

FRENCH. See Romance Languages, pages 60-61.

GEOLOGY

Messrs. Hawley and Potter

11-12. *General Geology.* An introductory course, including studies of the various geological agencies and processes responsible for the past and present surface features of the earth, the general composition and structure of the earth's crust, and the geological history of the earth. Three class periods and three hours of laboratory or field exercises each week. One all-day field trip each semester. Open to freshmen. Credit, four hours each semester. Instructors, Messrs. Hawley and Potter.

21. *Geology of North America.* A systematic study of the continent emphasizing location, description, age and origin of major geologic elements, giving an integrated picture of broad structures, basins of sedimentation, metamorphic belts, batholiths, volcanic fields, and physiographic provinces. Three class periods and three hours of laboratory or field exercise each week, and at least one extended field trip. Prerequisite, 11-12. Instructor, Mr. Potter.

22. *Economic Geology.* A study of the geologic occurrence, origin, and distribution of the major metallic and non-metallic ores and fuels (coal, oil, gas, uranium). Economic factors pertinent to the

mining and processing of ores. Three class periods and three hours of laboratory each week, including a mine mapping exercise and other field trips requiring reports. Prerequisite, 11-12. Instructor, Mr. Potter.

23-24. *Structural and Field Geology.* A study of primary and tectonic rock structures, and the principles of deformation of the earth's crust. Study of field methods and their application in geologic surveying. Three class periods and three hours of laboratory or field exercises each week, plus at least two week-end field trips. Prerequisite, 11-12. Alternates with 33-34. (Not offered in 1959-60.)

25-26. *Mineralogy—Optical Mineralogy.* First semester: introduction to crystallography, elementary crystal chemistry, and atomic structure of minerals; study of mineral occurrences; identification of minerals by physical and chemical tests. Second semester: theory and techniques of mineral study using the polarizing microscope; study of mineral occurrences; identification of minerals by optical, physical, and chemical tests. Three class periods and three hours of laboratory or field exercises each week. Prerequisite, 11-12. Previous or concurrent election of Chemistry 11-12 is recommended. Alternates with Geology 31-32. (Not offered in 1959-60.)

31-32. *Petrology.* Study of the origin of the occurrence, structure, texture, and mineralogy of igneous, sedimentary, and metamorphic rocks. Three class periods and three hours of laboratory (hand specimen and microscopic study) or field exercises each week. Prerequisite, 25-26. Alternates with Geology 25-26. Instructor, Mr. Potter.

33-34. *Advanced Historical Geology.* First semester: invertebrate paleontology; the beginning and development of the primitive earth; the Pre-Cambrian and early Paleozoic eras. Second semester: the later Paleozoic, Mesozoic, and Cenozoic eras. Three class periods and three hours of laboratory or field exercises each week. Prerequisite, 11-12. Alternates with 23-24. Instructor, Mr. Hawley.

36. *Seminar.* Study and group discussion of current and classical geological literature to focus attention on major problems related to the history, structure, and composition of the earth. One hour credit. Prerequisite, 11-12 and one advanced course in the department, or by special permission. Required of Geology majors. Instructors, Messrs. Hawley and Potter.

GERMAN

Messrs. Liedke, Browning, and Colby

11-12. *Elementary German.* Thorough grounding in pronunciation, grammatical forms, and syntax in coordination with the reading and discussion in German of easy texts. Open to freshmen. Freshmen granted credit for 11-12 only upon completion of German 13-14. Others granted credit for German 11-12 without completing German 13-14 only upon recommendation by the head of the department. Five hours a week throughout the year. Credit, three hours each semester. Instructors, Messrs. Liedke and Browning.

13-14. *Intermediate German.* Review of grammar and syntax; oral and written drill on vocabulary and idioms; reading and discussion in German of prose texts. Prerequisite, 11-12 or a minimum of two units of entrance German. Required of sophomores who have taken 11-12. Instructor, Mr. Colby.

21-22. *Introduction to German Literature.* The reading and study of German prose and verse of the nineteenth and twentieth centuries; outside reading and written reports. Conducted principally in German. Prerequisite, 13-14. Instructor, Mr. Colby.

29-30. *Composition and Oral Practice.* This course offers practice in speaking and comprehending German on a conversational level and also aims at increasing the student's facility in expressing himself in writing. Prerequisite, instructor's consent. (Not offered in 1959-60.)

31-32. *Modern German Poetry and Prose.* Text exegesis, oral and written reports, and essays; outside reading in prose and verse. Prerequisite, 21-22. (Not offered in 1959-60.)

33-34. *German Drama.* Brief introductory survey of the history of German drama; critical study and interpretation, and conversational discussion in German, of the dramas of Lessing, Goethe, Schiller, and representative nineteenth century and contemporary dramatists; written reports and essays. Prerequisite, 21-22 or 31-32 or a grade of B in 13-14. Instructor, Mr. Browning.

35-36. *The Works of Goethe.* Critical study and interpretation of a selection of Goethe's works. Major attention paid to the study of *Faust.* Outside reading and essays required. Conducted principally in German. Prerequisite, 21-22. Alternates with 33-34. Instructor, Mr. Liedke.

GOVERNMENT

Messrs. Rockwell, Richardson, and Guild

11-12. *Contemporary Systems of Government.* An introduction to the process of government. Foundations of politics; the cultural, philosophic, psychological, and economic context within which government operates; political institutions and group action. A comparative analysis of democracy and dictatorship. Three types of modern democracy (the American, British, and French) and two types of modern dictatorship (the Soviet and Fascist) examined comparatively. Instructors, Messrs. Rockwell and Guild.

21-22. *International Relations.* An introduction to world politics. First semester: the basic elements of the power conflicts of the twentieth century; total and limited war; diplomacy; nationalism; the United Nations; the politics of underdeveloped nations. Second semester: case studies of significant regional problems with government documents. Prerequisite, 11-12, Economics 11-12, or History 11-12. Instructor, Mr. Richardson.

23-24. *Parties, Interest Groups, and the Political Process.* A study of the American political process in terms of political party and interest group organization, composition, and technique. Emphasis is placed upon the demographic, historical-institutional, and theoretical influences on the political behavior of the individual and groups. Prerequisite, 11-12 or the instructor's consent. Instructor, Mr. Guild.

31. *American Foreign Policy.* The process by which decisions are made and implemented. Analysis of the roles played by the President, Department of State, the Foreign Service, Congress, the military, and pressure groups. Study of current policy issues such as Point Four, overseas information programs, the United Nations, disarmament, the problem of Russia. Prerequisite, 11-12 or 21-22. Open to juniors. Instructor, Mr. Richardson.

32. *Africa.* An area study of nations, colonies, and trust territories south of the Sahara. Individual research. Emphasis on African nationalism, racial and colonial policies, and the politics of underdeveloped areas. Prerequisite, instructor's consent. Enrollment limited to juniors and seniors approved by the instructor. Alternates with 36. (Not offered in 1959-60.)

33-34. *American Constitutional Development.* The development of the Constitution through judicial interpretation. The Supreme

Court and public policy. Emphasis on the political, social, and economic context of judicial review; philosophies of individual justices; evolution of major features of modern constitutional law; the function of the Supreme Court. Prerequisite, 11-12 or History 21-22, or the instructor's consent. Open to juniors. Instructor, Mr. Rockwell.

36. *The Middle East.* A regional study of the Middle East with emphasis on strategic, economic, political, and social factors. The impact of the West upon the Arab and non-Arab world. The role of Islam and Arab nationalism. The conflict of great power interests. Presentation and discussion of case studies. Prerequisite, instructor's consent. Enrollment limited to juniors and seniors approved by the instructor. Alternates with 32. Instructor, Mr. Richardson.

37-38. *American Political Institutions.* A critical analysis of myth and reality of the institutional forms in American government. Special attention, through case studies and extended discussion, is given to the forces which cause continuous change and readjustment of such institutions as the separation of powers, federalism, and representative government. Prerequisite, 11-12 and the instructor's consent. Instructor, Mr. Guild.

43. *Law and Society.* Ideas of justice and law in western civilization from primitive times to the present. Social and political ends of justice and law. Development of legal systems as expressions of custom, as prevailing notions of justice, and as means of social control. Open to juniors. Instructor, Mr. Rockwell.

44. *Political Theory.* Main themes in western political theory from Plato to the present. Democratic and totalitarian theories of recent times: conservatism, liberalism, socialism, communism, and fascism. Open to juniors. Instructor, Mr. Rockwell.

GREEK. See Classical Languages, page 44.

HISTORY

Messrs. Graves, D. M. Ellis, Lee, and Adler

11-12. *The Historical Background of Modern Society.* An introduction to the historical development during the past four centuries of significant political, economic, and social forces which are molding modern European and American society. Open to freshmen. Instructors, Messrs. Graves, Ellis, Lee, and Adler.

21-22. *History of the United States.* A survey of the development of the American nation from Colonial beginnings to the present. Open to sophomores. Prerequisite, 11-12 (or Government 11-12) or the instructor's consent. Instructor, Mr. Ellis.

23-24. *England and the British Empire.* A historical study of the development of British institutions and their spread to other parts of the world, with particular attention to economic and social changes in Great Britain and in the British Commonwealth and Empire. Prerequisite, 11-12. Instructor, Mr. Graves.

25-26. *Asian History.* The historical development of various civilizations from India to Japan. Prerequisite, 11-12 or the consent of the department. Instructor, Mr. Lee.

33-34. *Twentieth Century America.* The adaptation of American democracy to the machine age and urban life; the New Nationalism, the New Freedom, and the New Deal; American entry into the two World Wars. Prerequisite, 21-22. Alternates with 31-32. Instructor, Mr. Ellis.

35-36. *European Civilization from the Eleventh to the Seventeenth Century.* First semester: the society and culture of the later Middle Ages. Second semester: the society and culture of the period usually designated Renaissance and Reformation. Open to juniors. Prerequisite, any two courses in History. Instructor, Mr. Graves.

37. *History of Modern Japan.* The modernization of Japanese society and its subsequent domestic and international development. Prerequisite, 25-26. Instructor, Mr. Lee.

38. *History of Modern China.* Changes in China's domestic and international situations since the early nineteenth century; the effects of internal revolution and external pressures on China's traditional civilization. Prerequisite, 25-26. Instructor, Mr. Lee.

39-40. *History of Russia.* A survey of the development of Russia from its beginning to the present. Open to juniors. Prerequisite, 11-12. Instructor, Mr. Adler.

41. *The French Revolution and Napoleon.* A study of the impact of a revolution on European society. A reading knowledge of French, although not required, is desirable. Open to juniors. Prerequisite, any two courses in History. Instructor, Mr. Adler.

42. *Topics and Problems in the Diplomatic History of Europe* 1870-1939. A study of particular crises from the documentary sources. A reading knowledge of either French or German, although

not required, is desirable. Open to juniors. Prerequisite, any two courses in History. Instructor, Mr. Adler.

LATIN. See Classical Languages, page 44.

MATHEMATICS

Messrs. Gere, Ogilvy, van Alstyne, and Willard

11-12. *Introductory College Mathematics.* Study of mathematical concepts including logic, functional relationships, sets, algebraic systems, trigonometry. During a major part of the second semester elementary statistics and related topics are studied. A student may enter the course at the beginning of the second semester if he has taken, as a prerequisite, advanced algebra or its equivalent. Instructors, Messrs. Ogilvy and van Alstyne.

15-16. *Analytic Geometry and Elements of the Calculus.* Topics from plane analytic geometry, including the straight line, circle, conics, and polar coordinates, and an introduction to the differential and integral calculus, with applications to algebra, geometry, and mechanics. Prerequisite, 11-12, or four years of secondary school mathematics, including plane trigonometry. Instructors, Messrs. Ogilvy, van Alstyne, and Willard.

25-26. *Calculus and Differential Equations.* Further study of the differential and integral calculus, including analytic geometry of three dimensions. The solution of ordinary differential equations, with applications. Prerequisite, 15-16. Instructors, Messrs. Ogilvy and Willard.

31-32. *Advanced Calculus.* Topics from the calculus including partial differentiation and implicit functions, surface integrals, contour integration, improper integrals, series expansions, vector analysis. Prerequisite, 25-26. Instructor, Mr. Ogilvy.

33-34. *Probability and Statistics.* An introduction to the mathematical theory of probability and to statistical concepts. Topics studied include distribution functions, sampling theory, statistical inference, tests of hypotheses, statistical estimation, least squares, correlation, analysis of variance. Prerequisite, 15-16. Offered in alternate years. Instructor, Mr. Gere.

39-40. *Introduction to Higher Geometry and Modern Algebra.* An axiomatic study of analytic projective and synthetic geometry. An introduction to abstract algebra, including the study of algebraic

operations, groups, rings, fields, integral domains, polynomials, matrices, and determinants. Prerequisite, 25-26. Offered in alternate years. (Not offered in 1959-60.)

35. *Numerical Analysis.* Finite differences, interpolation, numerical integration and differentiation, numerical solution of differential equations, iterative methods for solving systems of simultaneous linear equations. Prerequisite, 25-26, or 27-28 and approval of the department. Offered in alternate years. (Not offered in 1959-60.)

36. *Mathematics for Digital Computers.* Preparation of problems for high speed digital computers, programming and coding techniques. Each student will work with an electronic computer for practical experience in machine computation. The facilities of the Computation Center of Syracuse University are available for this purpose and the student must make arrangements for attending weekly sessions at Syracuse. Prerequisites, 35 and approval of the department. Offered in alternate years. (Not offered in 1959-60.)

37-38. *Introduction to the Theory of Functions.* An introduction to the theory of functions of real and complex variables through the critical study of a limited number of topics such as limit theorems, continuity, Jacobians, integration, properties of sets of points. Prerequisite, previous or concurrent election of 31-32. Offered in alternate years. Instructor, Mr. van Alstyne.

45-46. *Seminar.* Topics selected from the various fields of mathematics according to the individual needs of those electing the course. Prerequisites, previous or concurrent election of 31-32 and approval of the department. (Not offered in 1959-60.)

MUSIC

Messrs. Shute and Baldwin

11-12. *Introduction to Music.* A general course in understanding music. The study of musical terms, forms, styles, important compositions and composers, with some discussion of aesthetic problems as they arise. Also studies in notation, sight-singing, and ear-training. No previous knowledge of music necessary. Open to freshmen. Instructor, Mr. Shute.

13-14. *The Fundamentals of Music.* Elementary harmony, form, and instrumentation studied from orchestral scores. Ability to read music and some musical background required. Prerequisite, 11-12 or the instructor's consent. Open to freshmen. Instructor, Mr. Shute.

21-22. *The History of Music.* A study of composers and their works, the evolution of forms and styles, and the relation of all these to the cultures that produced them, from ancient Greek times to the present. Prerequisite, 11-12 or 13-14. Instructor, Mr. Shute.

23-24. *Advanced Harmony.* The study of seventh chords and chromatic harmony. Composition in the small forms. Prerequisite, 13-14. Instructor, Mr. Baldwin.

31-32. *Counterpoint.* A study of sixteenth century methods and the application of polyphonic procedures to composition. Prerequisite, 23-24. Instructor, Mr. Baldwin.

33-34. *Seminar in Advanced Studies.* Individual projects in advanced composition or musicology. Prerequisites, 21-22, 23-24, and, for advanced composition, 31-32. Credit for either composition or musicology, six semester hours or, with departmental approval, twelve semester hours. Instructors, Messrs. Shute and Baldwin.

Choir. Those taking this course constitute the Hamilton College Choir. Membership in the Choir is open to all approved undergraduates in regular standing. Rehearsals are held three hours a week throughout the year; Choir membership carries one credit hour each semester. Director, Mr. Baldwin.

Individual Instruction. For those desiring individual instruction in instrumental or vocal music, excellent teachers are available. Practice rooms equipped with upright and grand pianos are maintained by the College and may be rented for one hour daily at fifteen dollars for the College year. One Baldwin electronic organ and a three manual pipe organ in the Chapel are available for student practice at the same fee.

PHILOSOPHY AND RELIGION

Messrs. Blyth, Miller, Blackwood, Jacobson, Santas, Olmsted and Mrs. Ring

11-12. *An Analysis of the Nature and Structure of the Reasoning Process.* A study of the factors involved in both valid and invalid reasoning as found in formal, empirical and normative fields of thought. Open to freshmen, not open to seniors. Instructors, Messrs. Blyth, Jacobson, and Santas.

21-22. *The History of Philosophy.* A study of the philosophical classics of western civilization. Consideration of the most important

contributions of outstanding thinkers from early Greek times to the present. Open to sophomores. Instructors, Messrs Blyth, Jacobson, and Santas.

23-24. *Ethical Theory.* A critical survey of influential ethical theories from Plato to the present. Emphasis will be placed upon the relevance of the views considered to actual social, political, and personal concerns. Open to sophomores. Instructor, Mr. Jacobson.

25-26. *The History of Western Religious Thought.* A study of the contribution that the religion of the Bible has made to the development of Western Civilization and ways of thinking. This involves a survey of the interplay of theological, philosophical, and scientific ideas. The course will lead up to an assessment of the present day outlook on the *Bible* and its place in the lives of men. Open to sophomores. Instructors, Messrs. Miller, Olmsted and Mrs. Ring.

31-32. *The Major World Religions.* An analytic study of the thought and a historical study of the cults of Non-Literate religions, classical Mediterranean religions, Zoroastrianism, Islam, Confucianism, Taoism, Hinduism, Buddhism, Shinto, Judaism, and Christianity. Prerequisite, 21-22, 23-24, or 25-26. (Not offered in 1959-60.)

33-34. *Contemporary Philosophy.* A survey of the important developments in contemporary philosophy. Prerequisite, 21-22. Instructor, Mr. Santas.

35-36. *The Christian View of God and Man.* A study of the Christian doctrine of God, of man, and of man's duty as this is expressed in the traditions of the Christian Church and the ecumenical creeds of Christendom. Prerequisite, 21-22 or 25-26. Instructor, Mr. Miller.

41-42. *Seminar in Philosophy.* A systematic analysis of some significant problems in philosophy or religion. Open to seniors. Prerequisites, 21-22 and either one other course in the department or the instructor's consent. Enrollment limited. Instructor, Mr. Blyth.

PHYSICAL EDUCATION

Messrs. Weber, Jones, Batt, E. M. Long, Patrick, von Schiller, and Beaudry

During their first three years in residence, all students participate in the program for individual development. This program is based on the theory that it is as important to develop a good physique

and a love of sport in the average man as it is to provide scope for the brilliant athlete.

All students are tested at the beginning of their college course to discover their individual needs. Four tests are given to men who qualify in the medical examination: (1) physical fitness, (2) swimming, (3) skill in one outdoor carry-over sport, (4) skill in one indoor carry-over sport. The type of program pursued by each student is determined by his performance in these tests.

Men with organic defects or functional disabilities enter an individual program approved by the college physician.

Facilities and instruction are provided for the following sports: badminton, baseball, basketball, boxing, football, golf, handball, hockey, skating, skiing, soccer, squash, swimming, tennis, touch football, track, volleyball, and wrestling.

PHYSICS

Messrs. Cameron, Ring, and R. A. Hunt

11-12. *General Physics.* Selected topics from classical and modern physics. Three class periods and three hours of laboratory each week. Open to freshmen. Instructors, Messrs. Cameron, Ring, and Hunt.

21-22. *Atomic and Nuclear Physics.* Modern developments in the concepts of matter and radiation. Atomic structure, sub-atomic particles, natural and artificial radioactivity, nuclear energy and related topics. Prerequisites, 13-14 or 11-12 and Mathematics 15-16. Two class periods and four hours of laboratory each week. Instructor, Mr. Ring.

23-24. *Electric Circuits: Electronics.* Prerequisite, 11-12, and Mathematics 15-16. Three class hours and three hours of laboratory each week. (Not offered in 1959-60.)

31-32. *Mechanics.* The statics and dynamics of particles and systems of particles with applications to periodic motion, fluid dynamics and wave motion. Calculus and vector methods used throughout with strong emphasis on problem work. Prerequisites, 13-14 and Mathematics 25-26. Three class periods each week. Instructor, Mr. Ring.

33-34. *Optics.* Introduction to the geometrical optics of mirror and lens systems followed by a study of the phenomena of light con-

sidered as a wave motion—interference, diffraction, polarization, etc. Prerequisites, 23-24 and Mathematics 25-26. Two class periods and four hours of laboratory each week. (Not offered in 1959-60.)

35-36. *Electricity and Magnetism.* Direct and alternating current principles and circuits, electrostatics, electromagnetism and an introduction to electronics. Prerequisites, 13-14, 21-22 and Mathematics 25-26. Two class periods and four hours of laboratory each week. Instructor, Mr. Cameron.

41-42. *Atomic and Nuclear Physics.* Prerequisite, 23-24, 31-32, and Mathematics 25-26. Two class hours and four hours of laboratory each week. (Not offered in 1959-60.)

PSYCHOLOGY

Messrs. Godcharles, Lundin, and Stebbins

21-22. *Principles of Psychology.* An introduction to the objective analysis of behavior. Two hours of lectures, demonstrations, and discussion, and three hours of laboratory weekly throughout the year. Instructors, Messrs. Godcharles, Lundin, and Stebbins.

31-32. *Experimental Analysis of Behavior.* A series of experiments on discrimination, differentiation, motivation, and intermittent reinforcement. Outside reading and written reports will be required in connection with experiments. Two hours of lecture-discussion and three hours of laboratory weekly throughout the year. Prerequisite, 21-22. Enrollment limited. Instructor, Mr. Stebbins.

33. *Individual Differences.* A study of the variability in normal behavior from the viewpoint of its biological and social origins, development, and measurement. Two hours of lecture-discussion and one laboratory period weekly. Prerequisite, 21-22. Instructor, Mr. Lundin.

34. *Abnormal Behavior.* Personality disturbances, their nature, determinants, and relationship to normal behavior. Lecture-discussions, film, and clinical demonstrations. Prerequisite 21-22. Instructor, Mr. Lundin.

35. *Sensation and Perception.* An experimental investigation of the determinants and properties of sensory and perceptual experience in man. Two hours of lecture-discussion and one laboratory period weekly. Prerequisite, 21-22. Enrollment limited. Instructor, Mr. Godcharles.

36. *Social Psychology.* An elementary investigation of the influences of organisms upon the behavior of other organisms. Lecture-discussion and one laboratory period weekly. Prerequisite, 21-22. Enrollment limited. Instructor, Mr. Godcharles.

37. *Personality Theory.* An analysis of the principal theories of personality development and organization with special emphasis on the psychoanalytic schools. Prerequisite, 21-22. Instructor, Mr. Lundin.

38. *Theories of Learning.* An examination and evaluation of the current theories of learning in the light of experimental findings supporting them, the research methods involved, and their historical origins. Prerequisite, 21-22 and one other course in Psychology which may be taken concurrently. Instructor, Mr. Lundin.

PUBLIC SPEAKING

Messrs. Marsh, J. F. Hunt, Todd, Johnson, Carson, and Troust

Freshman and sophomore courses are required of all students. During the upperclass years, emphasis is on the individual student's growth in the use of speaking skills and techniques. Juniors and seniors may satisfy the public speaking requirement by electing each year one of the advanced one-hour courses offered by the department or by substituting approved, supervised non-credit extracurricular work in the field of speech. A student may not elect the same advanced course for credit more than once; he may, however, continue, if he has done satisfactory work, for a second year in the same extracurricular speech activity.

11-12. *Freshman Public Speaking.* The elements of public speaking. A systematic treatment of the principles of effective speech, with emphasis on the social processes of speech, on methods of improving speech habits, and on the dependence of effective speech upon the development of ideas. Analysis in individual conferences of voice and speech recordings; oral and written work, and study based on a textbook, with attempts made to coordinate work with that of other courses taken during the freshman year. Sections limited to eighteen students. Required of all freshmen. Two hours a week throughout the year. Credit, one hour each semester. Instructors, Messrs, Marsh, Todd, Carson, and Troust.

21-22. *Sophomore Public Speaking.* First semester: speech compo-

sition. Emphasis on planning and delivery of different types of speeches. Further study of principles of speechmaking. Reading and criticism of speeches. An introduction to the principles of discussion. Second semester: argumentation. Classroom study of the theory of argumentation and debate, including the analysis of propositions, methods of proof and rebuttal, briefing and platform practice. An introduction to parliamentary procedure. Course includes oral and written work, and use of a textbook. Two hours a week. Credit two hours each semester. Instructors, Messrs. Marsh, Hunt, Todd, Carson, and Troust.

31-32. *Advanced Discussion.* Study and practice of the principles of discussion, of the processes of thinking and of the solving of problems in committees and small groups, and of the methods of leading discussions and conferences. Emphasis on the factors of recognizing and attempting to solve a problem, of analytical thinking, of participation in conference work, and of adapting oneself to the nature of the group. Continuation of the study introduced in 21. One section to meet one hour a week throughout the year; the other section to meet two hours a week during the second semester only. Instructors, Messrs. Hunt, Todd, and Carson.

33-34. *Advanced Argumentation.* Study and practice of the methods of argumentation, including debate. Emphasis on the factors of developing and testing arguments and evidence, of adapting the argument to the audience, and of evaluating the use of various persuasive techniques. Continuation of the study introduced in 22. Two hours a week during the first semester only. Instructor, Mr. Hunt.

35-36. *Advanced Extemporaneous Speaking.* Continuation of the theory of persuasive speaking introduced in the freshman and sophomore courses. Standard forms followed in required speeches, with subjects taken mainly from the student's area of concentration. One hour a week. Instructors, Messrs. Marsh, Hunt, and Todd.

37-38. *English and American Public Address.* A critical survey of leading English and American orators, essayists, journalists, and American educators. Conducted mainly as symposium and panel discussions. One hour a week. Instructor, Mr. Marsh.

39-40. *Dramatic Interpretation.* Classroom reading of modern plays for the purpose of developing physical expression and understanding of the basic techniques of acting. One hour a week. Instructor, Mr. Johnson.

ROMANCE LANGUAGES

French

Messrs. Moraud, Hamlin, Piano, Uffenbeck, Davis, and Ducretet

11. *Study of Basic French (Français Elementaire)* formulated by a special commission appointed by the French Ministry of Education in 1951. Oral and written work. The course is limited to students who have had no previous training in French. Offered first semester only. Instructors, Messrs. Moraud and Hamlin.

12. *Second Semester French.* Thorough grounding in grammar and pronunciation. Reading in graded texts. Prerequisite, French 11 or one unit of entrance French. Offered each semester. Instructors, Messrs. Davis and Ducretet.

13. *Intermediate French A.* Review of grammar and syntax. Reading of selected texts. Oral practice. Prerequisite, French 12 or two units of entrance French. Offered each semester. Instructors, Messrs. Davis and Ducretet.

14. *Intermediate French B.* Intensive reading of selected texts, with outside reading. Oral practice. Prerequisite, French 13 or two units of entrance French. Offered each semester. Instructor, Mr. Piano.

15. *Intermediate French C.* Reading of selected texts with emphasis on the literary aspects through the *explications de textes* method. Outside reading and conversation. Prerequisite, French 14 or French 13 for unusually well-prepared students upon recommendation of the instructor. An elective course. Offered second semester only. Instructors, Messrs. Moraud and Hamlin.

21-22. *Introduction to Literature.* Survey course of French literature from the seventeeth century to the present; conducted largely in French. Reports on outside reading. Prerequisite, 13-14 or its equivalent. Instructors, Messrs. Piano, Davis, and Ducretet.

29-30. *Composition and Oral Practice.* A practical course, conducted entirely in French, which emphasizes the oral and written use of the language. Sections limited to twelve students. Prerequisite, the consent of the department. Instructor, Mr. Davis.

31-32. *Seventeenth Century Literature.* The growth of classicism in France during the seventeenth century. Lectures, discussions, outside reading, and written reports. Conducted entirely in French.

Prerequisite, satisfaction of the language requirement or its equivalent. Instructor, Mr. Hamlin.

33. *Eighteenth Century Literature.* The Age of Enlightenment and the opening of new horizons leading to the Revolution. Lectures, discussions, outside reading, and written reports. Conducted entirely in French. Prerequisite, satisfaction of the language requirement or its equivalent. (Not offered in 1959-60.)

34. *Problems in French Literature.* A study of specific problems and movements in French literature. Topic for 1958-59: the originality and intense individualism of the French Renaissance as reflected in the Humanists, Rabelais, Calvin, Montaigne, and the Pléiade poets. Special attention will be given to Hellenism, Platoism, Petrarchism, the Baroque, Protestantism and Skepticism as seen in the literary documents of the period. Lectures, discussion, outside reading and written reports. Conducted entirely in French. (Not offered in 1959-60.)

35-36. *Nineteenth Century Literature.* Romanticism, realism, nauralism, and symbolism. Lectures, discussions, outside reading, and written reports. Conducted entirely in French. Prerequisite, satisfaction of the language requirement or its equivalent. Instructor, Mr. Piano.

37-38. *Contemporary Literature.* Representative authors of the twentieth century. Topics assigned for report and discussion; papers read and criticized in the classroom. Conducted entirely in French. Prerequisite, satisfaction of the language requirement or its equivalent. Instructor, Mr. Moraud.

Junior Year in France. Director, Mr. Uffenbeck. See page 34.

Spanish

Messrs. Piano, Kronik, and Gregg

11-12. *Elementary Spanish.** Thorough grounding in grammar and pronunciation. Reading in graded texts. Open to freshmen. Freshmen granted credit for 11-12 only upon completion of Spanish 13-14. Others granted credit for 11-12 without completing 13-14 only upon recommendation by the chairman of the department. Five hours a week throughout the year. Credit, three hours each semester. Instructors, Messrs. Kronik and Gregg.

13-14. *Intermediate Spanish.** Review of grammar and syntax.

Intensive reading of selected texts, with outside reading. Oral practice. Prerequisite 11-12 or at least two units of entrance Spanish. Required of sophomores who have taken 11-12. Instructors, Messrs. Kronik and Gregg.

21-22. *Introduction to Literature.* Survey course, conducted largely in Spanish, of Spanish literature from the Golden Age to the present. Outside reading reports. Prerequisite, 13-14 or its equivalent. Instructors, Messrs. Kronik and Gregg.

29-30. *Composition and Oral Practice.* A practical course, conducted entirely in Spanish, which emphasizes the oral and written use of the language. Sections limited to twelve students. Prerequisite, the consent of the department. Instructor, Mr. Kronik.

31-32. *Spanish-American Literature.* A survey course conducted entirely in Spanish, with special emphasis on the nineteenth and twentieth centuries. Lectures, discussions, outside reading, and written reports. Prerequisite, satisfaction of the language requirement or its equivalent. (Not offered in 1959-60.)

35-36. *Advanced Spanish Literature.* First semester: literature of the Golden Age. Second semester: the nineteenth and twentieth centuries, with considerable emphasis on the *generacion del* '98 and the *generacion del* '36. Lectures, discussions, outside reading, and written reports. Conducted entirely in Spanish. Prerequisite, satisfaction of the language requirement or its equivalent. Instructor, Mr. Kronik.

Planning for a Career

A COLLEGE education is never an end in itself. Whether a man intends to enter upon his career immediately after graduation or to continue his education in a graduate or professional school, the College endeavors to help him choose wisely and prepare himself appropriately.

FOUNDATIONS for a CAREER

Counseling

In order to help the student to determine what courses are most suited to his purposes and his aptitudes, the Dean and Associate Dean, assisted by members of the Faculty, devote considerable attention to counseling every undergraduate throughout his course. In particular, they confer at length with each freshman at the beginning of the year, and frequently afterward, to aid him with his academic and personal problems. They are available for conferences with students in their offices in Root Hall. Similarly, each member of the Faculty keeps regular office hours to see his students individually.

Qualified alumni also may serve as counselors on occasion. With alumni cooperation, the College sponsors each year a series of vocational conferences. At these meetings, men who are making a success in their chosen fields hold group and individual conferences to acquaint students with the opportunities and requirements of the various careers. Recent conferences have included such subjects as law, medicine, journalism, the ministry, education, research, insurance, industry and commerce, the creative arts, government, advertising, and banking.

Preparation for the Professions

Since a great many Hamilton men continue in graduate study, proper education for such work is an important aim of the Col-

lege curriculum. One of the most significant recommendations which a man may present to a graduate school of any kind, or to any employer, is a good academic record in a reputable college. Certainly the student will wish that record to show preparation suited to his career or to the proposed graduate study. The faculty advisors of the College have as one of their prime responsibilities that of helping the student to plan his program with an eye to just such needs. The following brief comments may be helpful to the undergraduate in planning his work in relation to the various types of graduate study.

Engineering

To meet the needs of students who wish to combine liberal arts with education in science and engineering, Hamilton College has entered into cooperative arrangements with the School of Engineering of Columbia University and Rensselaer Polytechnic Institute. Under this arrangement students of superior ability may plan a combined five-year course of study of which the first three years are spent at Hamilton and the last two at a cooperating institution. On the completion of this five-year program, qualified students may receive the degree of Bachelor of Arts from Hamilton College and the degree of Bachelor of Science from the engineering school. Full details of this cooperative program may be secured from the Secretary of Admission at Hamilton (page 34).

Medicine and Dentistry

Virtually all recognized medical and dental schools require year-courses in general chemistry, organic chemistry, biology, and physics. In addition, Hamilton feels that qualitative and quantitative chemistry and a second year-course in biology are essential for satisfactory medical-school preparation. Study in mathematics, psychology, and additional science courses are also recommended, but the pre-medical student need not feel it necessary to concentrate in a science department.

Graduate Study in Arts and Sciences

Students who anticipate working for an M.A. or a Ph.D. should note that almost without exception a reading knowledge of French

or German is required for the master's degree and a reading knowledge of both for the doctor's degree. Election of one or both of these languages in College is therefore strongly recommended. In addition, many graduate schools require a knowledge of Latin for degrees in English and modern languages. A student contemplating advanced work in science should plan to take mathematics at least through analytical geometry and elementary calculus. Certain types of scientific study will require more mathematics.

Teaching

Hamilton is proud of the number and quality of its graduates who are successful teachers and school administrators. For those students who plan a teaching career, Hamilton has entered into a cooperative plan with Harvard University, through the support of the Fund for the Advancement of Education. Hamilton graduates who wish to prepare for teaching in primary or secondary schools or in junior colleges may enroll at Harvard in a one-year program leading to the degree of Master of Arts in Teaching. Undergraduates interested in this or other post-graduate training should consult with the Hamilton Department of Education before planning their course programs, and must keep in mind that individual states set up specific course and hour requirements for the certification of their public school teachers. The prospective public school teacher usually will elect three year-courses in education, including practice teaching, as an undergraduate, and will probably concentrate in the subject which he expects to teach.

Business, Law, Government Service

For many careers and professions it is impossible to prescribe any set program—the law, for example, business administration, or government service. The best preparation for these is probably well-developed skills in reading, speaking, and writing, a wide choice of courses, and concentration in the area which the student finds most interesting. The man who anticipates a life's work in law or government service may wish to take several courses in history, government, or economics, and the future business administrator may concentrate in economics, but for careers of this sort, specialization need not begin early and often may better begin late.

Placement Bureau

Although considerably more than half of each senior class at Hamilton goes on to graduate study for one or another of the professions, many graduates enter directly upon their careers. For them the Associate Dean's Office, with the aid of members of the Faculty, functions as a placement bureau. Many alumni, themselves well established in their careers, are helping Hamilton men to secure positions suited to their aptitudes and interests. Each spring the Associate Dean schedules interviews for interested seniors with the representatives of business and industrial firms who visit the campus.

3

GENERAL INFORMATION

The College and Its Resources

Undergraduate Life

It is my earnest wish that the institution may grow and flourish, that its advantages may be extensive and lasting, and that, under the smiles of the God of wisdom and goodness, it may prove an eminent means of diffusing useful knowledge, enlarging the bounds of human happiness, and aiding the reign of virtue and the kingdom of the blessed Redeemer.

—**Samuel Kirkland, Founder**

The College and Its Resources

HAMILTON COLLEGE is located near the center of New York State, nine miles from the city of Utica and one mile from the village of Clinton. The post office address of the College is Clinton, New York.

Direct railway service is available to Utica, which is served by the New York Central Railroad. A bus line with frequent service runs between Utica and Clinton. The Oneida County Airport, served by Mohawk Airlines, and the Westmoreland Exit of the New York State Thruway (Exit 32) are within twelve miles of the campus.

Railway express service is provided to Clinton by the Railway Express Agency, which delivers from its Utica depot to dormitories and fraternity houses.

BUILDINGS and GROUNDS

The campus itself is a wooded park of about one hundred and sixty acres overlooking the Oriskany and Mohawk valleys. In 1951, through the generous gift of members of the Root family, the ROOT WILD GARDEN, consisting of over two hundred acres of land located south of the Root Glen, was added to the college campus. In all, the College buildings and grounds consist of five hundred acres of land and twenty-three buildings, compactly arranged in three quadrangles. Most of these buildings are constructed of a limestone quarried only a few miles from the campus.

In addition, the College owns forty houses occupied by members of the Faculty or staff, and their families. Eleven fraternity houses, owned by fraternity trustees, furnish living quarters for many of the students.

Dormitories

Five buildings—MIDDLE COLLEGE (1840), NORTH COLLEGE (1842), CARNEGIE HALL (1904), SOUTH COLLEGE (1906), and DUNHAM DORMI-

TORY (1958)—afford sleeping accommodations for nearly two-thirds of the student body. Any freshman who does not live at home is required to live in Dunham Dormitory; unmarried upperclassmen not residing at home are required to live in either a fraternity house or a College dormitory.

The four old dormitories have been modernized and redecorated in the past decade and new furniture has been installed during the post-war years. The dormitories are now equipped with an automatic fire-alarm system for the protection of life and property.

DUNHAM DORMITORY is arranged in suites of three rooms—two studies and one bedroom—for four men. Single rooms are available for upperclassmen in MIDDLE and NORTH COLLEGES. CARNEGIE HALL and SOUTH COLLEGE are arranged in suites for two, three, or four occupants. Essential furniture—beds, desks, chairs, and chiffoniers—is provided. All dormitory beds are three feet wide and six feet six inches long. Rooms are leased for the academic year only. The buildings are closed during vacation and the College reserves the right to use dormitory rooms during holiday periods.

Classrooms, Laboratories, Offices

Seven buildings are devoted to instruction: SILLIMAN HALL, BENEDICT HALL OF LANGUAGES, ROOT HALL, TRUAX HALL OF PHILOSOPHY, the CHEMISTRY BUILDING, the SCIENCE BUILDING, and the ROOT ART CENTER. Silliman Hall (1889), originally the gift of Horace B. Silliman, Honorary '90, Benedict Hall (1897), the gift of Henry Harper Benedict, '69, Truax Hall (1900), gift of Chauncey S. Truax, '75, and the Chemistry Building, which was erected in 1903 and rebuilt and enlarged in 1930, all provide classroom facilities. Root Hall, given by Elihu Root, '64, in memory of his father, Oren Root, Class of 1833, contains classrooms, the offices of the Dean, Associate Dean, and the Secretary of Admission, and three studios, the gift of the late Edward Wales Root, '05. The Science Building, constructed in 1925, contains the Knox Museum of Natural History, a science library, departmental classrooms, and laboratories in physics, geology, biology, psychology, and anthropology. The Root Art Center (1804), formerly the home of the late Edward Wales Root, was made available to the College in 1958 by his widow, Mrs. Grace McC. D. C. Root, Honorary '52. It contains classrooms, lounges, art galleries,

the offices of the Music Department, practice rooms, and listening booths. The various buildings also contain Faculty offices.

Administration Building

Built in 1812, BUTTRICK HALL is as old as the College itself. As the birthplace of Elihu Root, the building is of historical interest. In 1926 it was restored and reconstructed as the administrative headquarters of the College. Buttrick Hall now houses the offices of the President, the Business Manager, the Secretary of the College, the Director of Alumni Affairs, the Dean of the Chapel, and the Director of Public Relations.

The Chapel

The Chapel, restored in 1949 as a World War II memorial, occupies the central site of the campus. Designed in 1827 by Philip Hooker and completed the following year, the Chapel is thought to be the last remaining example of an early three-story church in America. The center of the religious life of the College, it also affords a place for public lectures, college assemblies, and concerts. As part of the 1949 restoration, the chapel organ, too, was rebuilt, and a double organ (a great organ and a *rückpositif*) installed. In 1958, the College Choir and other friends of the late William T. Steinhilber of the Class of 1958 contributed a set of *trompettes en chamade* in his memory.

Kirkland Cottage

The oldest (1792) building on the campus, Kirkland Cottage was first built near the foot of College Hill as a home by Samuel Kirkland, the founder of Hamilton College. In 1925 the cottage was moved uphill to its present campus site and later restored. Its furnishings now include Samuel Kirkland's desk and chair and other pieces of historical interest to visitors. The cottage is regularly used by Pentagon, senior honorary society, for its meetings.

The Infirmary

The THOMAS BROWN RUDD INFIRMARY, named for Hamilton's thirteenth president, opened this fall. It contains one large ward, two private rooms, waiting, examination, and X-ray rooms, a physician's office, and quarters for the two nurses on duty.

The Commons

The SOPER COMMONS, gift of Arthur W. Soper, Honorary '93, Alexander C. Soper, '67, and James P. Soper, was built in 1903 and an extensive renovation was completed last spring. The building includes a large dining hall for the freshman class, a smaller dining hall for non-fraternity upperclassmen, two lounges, a coffee shop, and the College Store.

Athletic Facilities

The ALUMNI GYMNASIUM (1940), gift of some three thousand alumni and friends of the College, contains a regulation swimming pool, courts for basketball, squash, and badminton, facilities for fencing, indoor baseball and wrestling, locker and team rooms, a library, and the Baker Memorial Lounge Room, as well as offices for members of the physical education staff.

The RUSSELL SAGE BUILDING (1921) which is connected with the Gymnasium, houses an 85- by 200-foot indoor artificial ice rink and a 220-yard cinder running track. The hard-surface floor is used during fall and spring for indoor tennis, and for volleyball and football practice during inclement weather.

Adjoining these buildings are the STEUBEN FOOTBALL FIELD with its quarter-mile cinder track, a baseball diamond, nine all-weather tennis courts, and a soccer and lacrosse field, as well as intramural fields.

The HAMILTON B. TOMPKINS GOLF COURSE, covering sixty-five acres, constitutes part of the campus.

THE LIBRARY

The Library, considered a laboratory of the liberal arts, holds over 250,000 volumes, an unusually large collection for a college the size of Hamilton. It is growing at the rate of approximately 4,000 volumes a year. About 560 periodicals are received regularly, including certain microfilm and micro-card editions. Students may purchase, at the Library's self-service bookstore, copies of the best among inexpensive paperbound books. A rental collection provides current works in American and foreign fiction. A rental collection of pictures and sculptures, both originals and reproductions, is maintained for the embellishment of students' rooms. The Brows-

ing Room, for students' leisure-time reading, houses 1,500 volumes and a library of poetry and drama recordings.

Students have free access to the stacks and are instructed in the use of catalogs, bibliographies, and reference works, and in other research techniques. Typing space and research desks for students undertaking independent studies and term papers are provided. Use of the Library is covered by the Honor System (page 79). Books may be borrowed for a full semester and no library fines are imposed.

Noteworthy among the Library's special holdings are the Ezra Pound Collection, the Rare Book Collection, the Alumni Collection of books written by and about graduates of the College, the Samuel Hopkins Adams Collection of College and regional history, and the Edward Robinson Collection of books on Palestinian travel.

There are four separate departmental libraries on the campus: in the Science Building, 15,000 volumes for use in connection with courses in biology, geology, and anthropology, and 1,300 volumes in the Physics Department; 2,500 volumes in the Chemistry Building; and the Alumni Gymnasium collection of books on hygiene and athletics.

SCIENTIFIC COLLECTIONS

The Knox Museum of Natural History, in the Science Building, contains valuable scientific collections in geology, mineralogy, biology, and anthropology. The geology and mineralogy collections, originated about 1850 by Professor Oren Root, of the Class of 1833, now include more than 100,000 specimens. There are also biological and geological models, an herbarium, and large collections of shells, insects, butterflies, birds and mammals. The anthropological collection includes 2,000 specimens from the American Indian and Neolithic lake dweller civilizations, and from other primitive cultures.

MEDICAL SERVICE

Students are attended by the college physician, who is available in the Infirmary daily at regularly scheduled hours and is on call

in cases of emergency. Associated with him are two nurses in regular attendance at the Infirmary. A clinical pathologist and a consultant in roentgenology serve the students when needed.

Payment of the Over-all Fee (page 14) entitles the students to the services of the College physicians and the resident nurses. Except for board, one week in the Infirmary in each semester is provided without further cost; for time in excess of that amount a charge of three dollars a day is made. No charge is made for medicine and other materials used in dispensary treatment, except medicines costing a dollar or more and X-rays. The patient's board is not covered by the Over-all Fee and is charged at the current college rate. A student who regularly takes his meals at Commons receives credit for the meals missed while he is in the Infirmary.

Group accident insurance is extended without separate charge to all regularly enrolled students who pay the Over-all Fee. This insurance will cover the actual cost, up to $500, of any medical or surgical treatment including hospitalization and the services of trained nurses that may be required in consequence of an accident. The coverage runs for twelve months and affords protection against all accidents whether sustained at College or elsewhere.

Undergraduate Life

The STUDENT SENATE, a body of twenty undergraduates representing all four classes, all eleven fraternities, the Squires Club, and the non-fraternity men, serves as the governing board for student affairs and meets bi-weekly throughout the year to conduct its business within the statutes established by the Board of Trustees. The Senate also provides an annual scholarship worth between $350 and $450. It is the parent body of four undergraduate groups, as follows:

The student INTRAMURAL COUNCIL, which, with the advice of the Director of Athletics, assumes full responsibility for the conduct and scope of intramural athletics;

The SOCIAL COMMITTEE, which is the steering committee for such events as class dances, Winter Carnival and other social activities;

The STUDENT ADMISSIONS COMMITTEE, which works closely with the Office of Admission to interest promising high school and preparatory school students in Hamilton;

The STUDENT CURRICULUM COMMITTEE, which is organized to consider and recommend to the faculty additions or changes in the College curriculum.

Honor System

The examinations of the College are conducted without proctors, under an Honor System which was established by the students over fifty years ago and which has received undergraduate support ever since. The use of the Library and written work in courses in English composition and public speaking are included under the Honor System.

The Honor System is carefully explained during the new student's orientation period, and is fully described in the *Student Handbook*. Administration of the Honor System is by an Honor Court composed of representatives of the four classes. This Court investigates all violations of the Honor System and makes recommendations to the Faculty for action against violators.

Religious Services

The College, while under no denominational control, is in the Christian tradition and regards divine worship as a regular part of the life of its students. It avows its historic debt both to the Christian faith and to the devotion of its founders. Public worship, at which attendance is required, is observed each Sunday evening. The sermons are by the Dean of the Chapel, other members of the Faculty, or guest preachers. Students who, for reason of personal conscience, desire to attend services other than those at the College may make special arrangements to do so.

Every Christian man who enters the College is urged to become a member of the Chapel Congregation. The Lord's Supper is celebrated regularly during the College year.

A memorial to John Herschel Morron, of the Class of 1859, established by the bequest of his son, John R. Morron, provides an endowment, the income of which has been used to establish the annual JOHN HERSCHEL MORRON LECTURESHIP in religious thought.

The CHAPEL BOARD, composed of students and Faculty members, advises the College on the program of Sunday services and Chapel forums. The board also sponsors a series of seminars conducted by various members of the Faculty on subjects of religious interest; arranges for Communion services; sponsors a series of motion picture programs for the benefit of the Harlan F. Woodfork Scholarship; and conducts an annual clothing drive to aid European or Korean displaced persons and a yearly Campus Fund campaign for the benefit of several foreign colleges and scholarship funds.

Episcopal students have the opportunity of joining the CANTERBURY CLUB, and Roman Catholics the NEWMAN CLUB, both having active chapters on the campus. These groups meet frequently for discussions with their own priests.

Lectures and Concerts

Lectures and concerts are provided during the year for the college community from the income of endowments established for the purpose, augmented by general college funds.

The MYERS LECTURES were established in 1912 in memory of John Ripley Myers, of the Class of 1885. The foundation is intended "to bring into the life of the college community new men and new

points of view not covered by the ordinary curriculum of the College, and to add to its cultural possibilities."

The WOOD MEMORIAL LECTURESHIP was established in memory of Frank Hoyt Wood, for many years professor of political science at the College.

The WINSLOW LECTURES IN CLASSICAL ARCHAEOLOGY were established with a bequest by William Copley Winslow, D.D., of the Class of 1862.

The TRUAX MEMORIAL LECTURES IN PHILOSOPHY were established in 1956 by R. Hawley Truax, of the Class of 1909, in memory of his father, Chauncey S. Truax of the Class of 1875, to strengthen the instructional program in philosophy through visits to the College by distinguished lecturers in that field.

Art Program

The art department, through the generosity of the late Edward Wales Root, of the Class of 1905, has been provided with three skylighted studios, an exhibition room, and offices for the two members of the department, all located in Root Hall. Mr. Root's gift also made possible the purchase of equipment and materials for individual instruction in creative drawing and painting.

Five annual exhibitions are presented in the ROOT ART CENTER, accompanied by gallery talks corresponding to the shows. Works of art for the exhibitions are provided by the Munson-Williams-Proctor Institute of Utica. The excellent permanent and visiting exhibitions at the Institute are also available to students.

The ART LENDING LIBRARY, administered by the College Library, consists of a collection of about one hundred and fifty original prints, copies, and sculptures. Students may rent the pictures in this collection by the semester for a nominal fee. The Library also sponsors exhibitions of student art work.

Athletics

POLICY. Hamilton College follows an athletic policy that reflects and interprets the educational philosophy and ideals of the College. There are three interlocking programs: intercollegiate sports, the intramural program, and the individual development program, which consists of individual instruction leading to proficiency in a number of different sports, all of which have postgraduate value.

The wide variety of approved sports in the three programs makes it possible for every student to engage in a form of athletics suited to his individual needs.

SCHEDULES. Sports events generally are scheduled with colleges whose size, educational standards, and athletic policy are similar to Hamilton's. Hamilton is not a member of any athletic league or conference, nor does it participate in post-season games. The Faculty sets limits and gives final approval to all athletic schedules.

The ATHLETIC DEPARTMENT is one of the academic departments of the College. The coaches, who are members of the Faculty, conduct the regularly-scheduled physical education classes. The department's budget is one part of the academic budget; the department's finances are directed by the College Business Manager.

The recognized intercollegiate sports are football, soccer, cross-country, basketball, ice hockey, swimming, baseball, golf, lacrosse, tennis, and track. Informal intercollegiate competition is conducted also by ski, squash and sailing groups. Interclass and interfraternity competition is normally held in touch football, basketball, ice hockey, track, softball, golf, tennis, volley ball, swimming, table tennis, squash, bowling, badminton and handball. The student Intramural Council assumes responsibility for intramural athletics (page 79).

The BLOCK H CLUB, consisting of those undergraduates who have received their letters in varsity sports, is dedicated to working for the best interests of athletics at Hamilton College. The club holds a sports banquet at which the annual athletic awards are announced.

Eight athletic awards are given annually to varsity players who are outstanding for their sportsmanship, personal attitude and general contribution to their team: the THOMAS MOORE SHERMAN AWARD, established by Sherrill Sherman, '04, in golf; the JOHN STRICKLAND AWARD, established by John Strickland, '05, in baseball; the FOWLER AWARD, established by Richard S. Fowler, '23, in football; the PAULDING F. SELLERS, JR., AWARD, established by Harry O. Harman, '30, in hockey; the JAMES H. CAMPBELL AWARD, established by Donald C. Hiler, '30, in basketball; the SHULMAN AWARD in soccer, established by Mandel G. Shulman, '44; the CLASS OF 1904 AWARD in tennis; the CRANE AWARD in cross-country, established by Dr. A. Reynolds Crane, '29; and the AHNER AWARD in track, established by Walter L. Ahner, '28.

Debating

Each year students participate in numerous intercollegiate debates. Much attention has been given in recent years to debates and panel discussions delivered before luncheon clubs, parent-teacher associations, and other organizations in central New York. Several Hamilton students participate in the annual state intercollegiate debate assembly. Since 1922, Hamilton College has had a chapter of DELTA SIGMA RHO, the honorary forensic fraternity. The College frequently plays host to state and sectional debate tournaments.

Dramatics

The CHARLATANS, the College dramatic society, was organized in 1909 by a group of students headed by Professor Emeritus Robert Barnes Rudd and the late Alexander Woollcott. Today, as then, membership in the group is open to all students having an interest in dramatics or stagecraft. Usually the Charlatans present two full-length productions and the three best student-written, one-act plays each year. Outstanding work with the Charlatans is a prerequisite to election to ALPHA PSI OMEGA, national honorary dramatics society, the local chapter of which was established in 1951.

The College also offers a course in dramatic interpretation; see Public Speaking 39-40.

Music

The COLLEGE CHOIR provides music for the Sunday Chapel service, gives concerts on Parents' Weekend and on Commencement Weekend, and sings at other special occasions. Engagements off the campus and joint concerts with choral organizations of women's colleges are commonly arranged each year. The activities and direction of the Choir are under the jurisdiction of the Department of Music. Ability to sing is the sole requirement for admission; previous experience is helpful but not necessary.

The GLEE CLUB was established in 1958 to provide students with opportunities for informal singing. Membership is open to all interested singers.

The BUFFERS, a double quartet, appear at Hamilton and other eastern colleges.

The COLLEGE BAND, organized in 1932, is also under the general

direction and control of the Department of Music. Membership is open to any student who can play an instrument. The Band plays at athletic contests and on other special occasions.

The BRASS ENSEMBLE and the WOODWIND ENSEMBLE support the Choir in concerts during the year.

The HAMILTON COLLEGE SINGING TROPHY is awarded annually on the basis of interclass competition held on Class and Charter Day late in May. Each spring, an intramural sing determines the winner of the BERRIAN R. SHUTE INTRAMURAL SING TROPHY, donated by the College Choir and named for the chairman of the College's Department of Music.

Publications

All student publications are managed by the HAMILTON COLLEGE PUBLICATIONS BOARD, an organization chartered by the Board of Trustees and consisting of ten directors—five students and five members of the administrative staff and Faculty. The chairman of the board is always a student. The directors are responsible for the editorial policy of all publications, for the adjudication of editorial problems, and for financial management. All business matters are directed by a student business manager.

Student publications are *The Spectator,* a weekly newspaper, *The Continental,* a literary magazine, and *The Hamiltonian,* an annual. Payment of the Over-all Fee (page 14) entitles students to receive all publications.

The COLLEGE PRESS BOARD provides an opportunity for students interested in journalism to gain both practical experience and remuneration by serving as correspondents for newspapers published in neighboring cities and for such news services as the Associated Press and the United Press International.

For outstanding work on College publications or the Press Board, students may be elected to the local chapter of PI DELTA EPSILON, the national honorary journalistic fraternity.

Clubs

Students interested in a particular field of study find a common ground in the DEPARTMENTAL CLUBS which meet at intervals during the college year. Discussions, presentation of papers, and a social hour provide the customary program, and meetings take place

either in fraternity houses or at the homes of faculty members. Field trips may also be held. Among such groups are the clubs sponsored by the Biology, French, Spanish, and German departments.

The INTERNATIONAL RELATIONS CLUB is an undergraduate organization, with student officers and a faculty advisor, whose purpose is to stimulate and plan student discussions on current international issues. The club meets twice a month and sponsors lectures and informal discussions conducted by the student members. It also sends a delegation to the annual meeting of the Model United Nations.

The OUTING CLUB, with Professor J. Franklin Hunt as advisor, organizes and conducts hikes, ski trips and camping tours.

The HAMILTON LITERARY CLUB, an undergraduate organization with student officers and a faculty advisor, meets twice a month for the reading and critical discussion of papers presented by students and members of the Faculty. The club occasionally sponsors visiting lecturers speaking on non-curricular topics.

The FOREIGN FILM SOCIETY, directed by students and supported by subscriptions, presents a program of motion pictures from the major European and Oriental countries. The HOLLYWOOD HERITAGE FILM SOCIETY regularly features motion picture classics of the past.

Social Organizations

All the fraternities and the Squires Club are represented on the Student Senate (page 79). The PRESIDENT'S TROPHY FOR SCHOLASTIC ATTAINMENT, an annual award, is given to that group which has made the greatest achievement in scholastic average during the preceding academic year.

The following fraternities are active at Hamilton: SIGMA PHI (1831), ALPHA DELTA PHI (1832), PSI UPSILON (1843), CHI PSI (1845), DELTA UPSILON (1847), DELTA KAPPA EPSILON (1856), THETA DELTA CHI (1868), EMERSON LITERARY SOCIETY (1882), TAU KAPPA EPSILON (1930), DELTA PHI (1950), and GRYPHON (1958).*

Several years ago, when the Board of Trustees voted to expand the College's enrollment to 750 students and to construct the new freshman dormitory which opened last February, it directed also that fraternity rushing be deferred until the fourth quarter of the

* Dates given indicate the year when local chapters were established at Hamilton.

freshman year. In conjunction with the deferment of rushing, which becomes effective in the fall of 1959, the Student Senate has adopted a plan to assure that all freshmen who want to join fraternities will have an opportunity to do so.

Early in 1939, the non-fraternity students at Hamilton organized themselves as a social unit known as the SQUIRES CLUB. Headquarters for this organization have been provided by the College in the Squires House. Every student who is not a member of a fraternity is eligible for membership in the Squires Club upon the payment of nominal dues.

Honor Societies

Each of the three upper classes has an honorary society, members of which are chosen in the spring of the preceding academic year. The senior honorary group, PENTAGON, chooses five men annually on the basis of their leadership and devotion to the College. The junior honorary society, WAS LOS, annually chooses six men who have demonstrated leadership in campus activities. The sophomore honorary body, D.T., elects thirteen outstanding athletes and campus leaders.

The honor societies sponsor such varied campus activities as blood-bank drives, rallies, and College dances, serve as cheer leaders, campus escorts and Commencement ushers, and in general pledge themselves to improvement of the undergraduate activities of the College.

Automobiles

Only juniors and seniors in good standing who are not receiving scholarship aid may maintain automobiles or other vehicles on or in the vicinity of the College grounds. All automobiles must be registered with the Associate Dean during the first week of each College year.

4

HONORS AND AWARDS

Honors

Fellowships

Prize Scholarships

Prizes

There is great danger that the young people of these days will fail to establish for themselves proper standards of values but will decide that the chief things in life are those which money will buy —things that exist today and are gone tomorrow; forgetting for a time that the things which are best are found in a broad knowledge of men and affairs, a sterling character, the ability to think straight and translate thought into action. It is of the utmost importance to the welfare of our nation that the young learn what is most worth while in life. No other agency is at all so well fitted to do this as the small college if properly equipped and properly conducted.

—Elihu Root, '64, awarded Nobel Peace Prize, 1912

Honors and Awards

HONORS and prizes are conferred for general excellence, or for superiority in a special field. To compete for a prize, a student must be in regular standing. Information concerning details of oration and essay competitions may be obtained from members of the Department of Public Speaking.

HONORS

Phi Beta Kappa

The Hamilton chapter of Phi Beta Kappa, known as the Epsilon Chapter of New York, was established in 1870. Students are elected to membership primarily for intellectual distinction. In September, the chapter may choose not more than five seniors having especially distinguished records during their first three years. Other seniors are elected in April. Except by unanimous consent of the chapter, not more than one-eighth of a class may be chosen.

Commencement Honors

The valedictorian and the salutatorian are the two seniors whose average grades for the course are respectively highest and second highest.

Department Honors

Department honors may be awarded at graduation in those subjects in which a concentration is possible and in Public Speaking. To receive honors in subjects where a concentration is possible, a student must normally have taken four or more departmental year courses acceptable for a concentration and must have an average of not less than 90 in all such courses; except that a student whose average is between 85 and 89 in such courses may receive honors by special recommendation of the department.

Honors in Public Speaking are awarded on recommendation of the chairman of this department.

FELLOWSHIPS

The Root Fellowship

The Root Fellowship in Science, established in 1894 by the Honorable Elihu Root, of the Class of 1864, is ordinarily granted for a single year of graduate study at some American or European university approved for that purpose in each individual instance by the Faculty.

Any member of the senior class of high standing who has shown marked ability and special aptitude for research in one or more of the departments of science may be nominated for this award by those departments. From the men thus nominated, the Faculty will select one who shall be recommended to the Trustees for appointment.

The Fellowship provides up to $1,200 for the year of study.

Classical Fellowships

Hamilton contributes regularly to the support of the American School of Classical Studies at Athens and of the School of Classical Studies of the American Academy in Rome. Graduates of the College are thereby entitled to compete for the annual fellowships awarded by these schools and to pursue studies at either institution without payment of tuition. The contribution to the school at Athens is provided from the income of an endowment established by the will of the late Professor Edward Fitch, of the Class of 1886; that to the Rome academy from a grant made by Henry P. Bristol, Lee H. Bristol, and William M. Bristol, Jr., of the classes of 1910, 1914, and 1917, respectively, in memory of their uncle, Professor George P. Bristol, of the Class of 1876.

PRIZE SCHOLARSHIPS

Prize scholarships are competitive and are awarded to students in recognition of outstanding achievement. A number of scholarship foundations, established by alumni and friends of the College, support them.

To be eligible for a prize scholarship, a student must have main-

tained for the previous semester a C average with no failure and no delinquency in attendance. No student may hold at one time more than one prize scholarship.

Arnold Prize Scholarships

The Benjamin Walworth Arnold Prize Scholarship Fund, given by Mrs. Benjamin Walworth Arnold in memory of her late husband, provides four prize scholarships, of which one is to be given annually to that holder of a regular scholarship in each College class who in the preceding year (or in the first semester in the case of freshmen) shall have made the best record in his College courses.

General Prize Scholarships

DR. EDWARD FITCH PRIZE SCHOLARSHIP IN GREEK. Founded by E. Root Fitch, of the Class of 1886, a scholarship is awarded annually to that student who, on completion of Greek 11-12, shall have maintained the best record in that subject. To be eligible for the award, the appointee must elect Greek 21-22.

E. ROOT FITCH PRIZE SCHOLARSHIP. A scholarship founded by E. Root Fitch, of the Class of 1886, is awarded annually to that member of the Hamilton chapter of Delta Upsilon who, having maintained at least a C average for two consecutive years, makes in the second of these years the greatest improvement in his scholastic record.

Senior Prize Scholarships

Upon receiving a senior prize scholarship, the appointee must elect in his senior year at least one advanced course in the department of the award and complete the senior year at Hamilton.

The EDWARD HUNTINGTON MEMORIAL MATHEMATICAL SCHOLARSHIP, founded by Alexander C. Soper, LL.D., of the Class of 1867, the ARTHUR W. SOPER LATIN SCHOLARSHIP, and the DUELL GERMAN SCHOLARSHIP, founded by the Honorable Charles Holland Duell, LL.D., of the Class of 1871, are each awarded for excellence in the field specified, as determined by the recipient's work in his freshman, sophomore, and junior years and, at the discretion of the departments, by a competitive examination at the end of the junior year.

CHAUNCEY S. TRUAX PRIZE SCHOLARSHIP IN GREEK. The Truax Scholarship is awarded to that senior who shall have stood highest in the study of Greek for the first three years with an average grade of not less than 85. Preference will be shown to candidates who entered Hamilton as freshmen with credit in Greek.

FRANK HUMPHREY RISTINE SCHOLARSHIP. Established by former students and other friends of the late Frank H. Ristine, professor of English literature from 1912 to 1952, the Ristine Scholarship is awarded for excellence in English. Consideration is also given to general academic standing, need for financial aid, and campus citizenship.

CAPTAIN GERALD FITZGERALD DALE SENIOR SCHOLARSHIP. This scholarship is awarded to a senior who has completed his junior year with distinction in literature, language, music, science or social science and ranks in the top tenth of a class over one hundred in number or in the top quarter of a class of fewer than one hundred, and who needs financial aid. In addition, he must have demonstrated his promise for useful citizenship by his character, his standing among his fellows, and his contribution to the extracurricular life of the College.

Junior Prize Scholarships

OREN ROOT PRIZE SCHOLARSHIPS. Two scholarships are awarded to the two juniors who have the best records in mathematics during the freshman and sophomore years and who continue that subject through the junior year.

DR. EDWARD FITCH PRIZE SCHOLARSHIP IN LATIN. A scholarship founded by E. Root Fitch, of the Class of 1886, is awarded annually to that sophomore who, at the end of one or two years of Latin, shall have maintained the best record in that subject. To be eligible for the award, the appointee must elect Latin in his junior year.

Sophomore Prize Scholarships

FAYERWEATHER PRIZE SCHOLARSHIPS. Five scholarships are awarded to the five sophomores who, at the end of the freshman year, have made the highest averages in their class. *(See also* Brockway Prize, below.)

The JAMES L. BENNETT SCHOLARSHIP is awarded to a student who, at the end of his freshman year, qualifies for scholarship. Provided

he continues to satisfy the requirements for maintaining a scholarship, it may be renewed for his junior and senior years.

The HARLAN F. WOODFORK SCHOLARSHIP, founded and maintained by the Student Christian Association, is awarded annually to a student at the end of his freshman year on the basis of character and need.

PRIZES

Achievement Prizes

BABCOCK PRIZE IN PHILOSOPHY AND PEDAGOGY. A foundation established by Edward S. Babcock, of the Class of 1896, provides a prize for that senior who shall have excelled "in philosophy, and particularly in the science of pedagogy."

BROCKWAY PRIZE. A foundation established by A. Norton Brockway, M.D., of the Class of 1857, provides a prize which is awarded to that member of the freshman class who has made the best academic record.

CLARK PRIZE ORATORICAL CONTEST. A foundation begun by Aaron Clark, A.M., and increased by Henry A. Clark, of the Class of 1838, provides a prize for that senior who is adjudged to be the best speaker in the annual oratorical contest.

CURRAN PRIZE IN GREEK AND LATIN. A foundation established by relatives of Colonel Henry H. Curran, of the Class of 1862, provides a prize in Greek and Latin, offered to juniors. The award is determined by written examinations in Greek and Latin. The competition in a given year is based upon Greek 31-32 or 33-34 and upon Latin 31-32 or 33-34.

NELSON CLARK DALE, JR., PRIZE IN MUSIC. A foundation in memory of Captain Nelson Clark Dale, Jr., U.S.M.C.R., of the Class of 1942, established by his parents, provides a prize for that student who has shown exceptional ability in music as composer, interpreter, or leader, or who has contributed most to the musical life of the College. All students in good standing are eligible for this prize. The committee of award shall consist of members of the Department of Music and a senior to be selected by the department.

DARLING PRIZE IN AMERICAN HISTORY. A foundation established by Charles W. Darling and supplemented by a friend of the College, provides a prize for the senior having the most distinguished record in at least two courses in American history offered to his class.

GÉLAS MEMORIAL PRIZE. A foundation established in 1955 by a group of alumni to honor the memory of Jean-Marius Gélas, fencing coach and Professor of Physical Education from 1921 to 1946, provides an award to the senior who has shown the greatest development in strength of character, leadership, and athletic ability during his college days.

FRANCIS W. GILBERT PRIZE. A gift presented by the Class of 1953 in memory of Francis Gilbert, fellow in history at Hamilton College from 1946 to 1953, provides a cash award to be presented at a college convocation to that sophomore who, in the opinion of the Dean of the College, has shown the greatest scholastic improvement in the second semester of his freshman year.

HAWLEY PRIZES IN GREEK AND LATIN. A foundation established by Martin Hawley, of the Class of 1851, provides two book prizes, equal in value, one for excellence in Greek and one for excellence in Latin. The awards are made to the students who have the best records in Greek 21-22 and Latin 21-22, respectively.

HOLBROOK PRIZE IN BIOLOGY. A foundation established by David A. Holbrook, of the Class of 1844, provides a prize for the senior having the best record in three year-courses in biology.

KNEELAND PRIZE. A foundation established by the Reverend Martin Dwelle Kneeland, D.D., of the Class of 1869, provides a prize for the student who has the best record when his grades in a year course on the Bible and in an essay competition on an assigned biblical subject are combined.

MC KINNEY PRIZE DEBATE. A foundation established by Charles McKinney provides two prizes for seniors excelling in extemporaneous debate.

MC KINNEY PRIZE SPEAKING CONTEST. A foundation established by Charles McKinney provides book prizes for the two men in each of the three lower classes who excel in public speaking. Four contestants are annually chosen from each of these classes upon the basis of their record in speaking and of their scholastic record up to the time of appointment. Juniors speak impromptu; sophomores give extempore speeches; and freshmen present memorized declamations. The competition is held on the evening of the third Wednesday in May.

JAMES SOPER MERRILL PRIZE. A foundation established in memory of James Soper Merrill by his nephew, James P. Soper, Jr., of the

Class of 1911, provides as a prize a gold watch which is awarded at Commencement to that member of the graduating class "who, in character and influence, has best typified the highest ideals of the College." The Faculty shall select the recipient of this award.

NORTON FOUNDATION. Thomas Herbert Norton, Ph.D., Sc.D., of the Class of 1873, has provided a foundation for the encouragement of research in chemistry. It is prescribed that the income in each year shall be given as a prize to that undergraduate or graduate student in the College who shall have demonstrated the greatest capacity for research in chemistry.

PUTNAM PRIZE IN AMERICAN HISTORY. The gift of Dr. Frederick W. Putnam, of Binghamton, supplemented by a friend of the College, provides a prize of books for the senior having the second most distinguished record in at least two courses in American history offered to his class.

RENWICK PRIZE SCHOLARSHIP IN BIOLOGY. This scholarship, founded by Edward A. Renwick, A.M., of Chicago, Illinois, is awarded to a member of the senior or junior class appointed by the Faculty, for the study of biology during the summer vacation.

ROGERS PRIZE IN GEOLOGY. A foundation established by E. Albert Rogers, of the Class of 1898, provides a prize for that senior having a major in geology who excels in the courses of his concentration program.

WILLIAM DUNCAN SAUNDERS PRIZE IN ENGLISH WRITING. A prize in memory of William Duncan Saunders, of the Class of 1925, offered by Mrs. Edward Wales Root and the late Alexander Woollcott, L.H.D., of the Class of 1909, is awarded for the best piece of student writing either submitted in manuscript or published since the last award. Competition is open to all students. Professor Emeritus Robert Barnes Rudd is the chairman of the committee of award and will nominate the other members, the majority of whom are to be from the Faculty of the College.

SOUTHWORTH PRIZE IN PHYSICS. A foundation established by Tertius D. Southworth, of the Class of 1827, provides a prize for the senior who excels in physics.

SQUIRES PRIZE IN PHILOSOPHY. A foundation established by Byron B. Taggart, of the Class of 1896, in honor of the late William Harder Squires, Ph.D., of the Class of 1888, provides a prize to be awarded annually, with the approval of the Faculty, to that senior

who shall have the highest grade when the marks for three year-courses in philosophy and a special examination designed for the purpose are combined.

TOMPKINS PRIZES IN MATHEMATICS. A foundation established by Hamilton B. Tompkins, A.M., of the Class of 1865, provides two prizes for juniors who excel in mathematics. The award is made upon the basis of an examination near the close of the junior year, involving the work in Mathematics 15-16, 25-26, and 31-32 or 33-34.

UNDERWOOD PRIZE IN CHEMISTRY. A foundation begun by George Underwood, of the Class of 1838, and increased by J. Platt Underwood, of the Class of 1870, provides a prize for the senior who excels in chemistry.

VROOMAN PRIZE. Through the generosity of John W. Vrooman, LL.D., a foundation provides a prize to be awarded to that freshman who shall have passed the best admission examination on some portion of the Greek New Testament.

WINCHELL PRIZE IN GREEK. A foundation established by Walter B. Winchell, M.D., of the Class of 1880, provides a prize to be awarded annually, with the approval of the Faculty, to the student who, beginning Greek in college, shall have the best record in three year-courses in this language.

WINSLOW PRIZE IN GREEK. A foundation established by William Copley Winslow, D.D., of the Class of 1862, provides a prize to be awarded annually to the member of the sophomore class attaining the greatest proficiency in Greek for the year.

WINSLOW PRIZE IN LATIN. A foundation established by William Copley Winslow, D.D., of the Class of 1862, provides a prize to be awarded annually to the member of the freshman class attaining the greatest proficiency in Latin for the year.

WINSLOW PRIZE IN ROMANCE LANGUAGES. A foundation established by William Copley Winslow, D.D., of the Class of 1862, provides a prize to be awarded annually to the member of the junior class attaining the greatest proficiency in Romance languages during his college course.

WYLD PRIZE IN GERMAN. A foundation by Lionel D. Wyld, of the Class of 1949, in memory of Mary E. and Fred H. Wyld, Sr., provides a prize to a junior or senior for excellence in German as evidenced by course work and an essay.

Essay Prizes

DEAN ALFANGE ESSAY PRIZE. A foundation of five thousand dollars by Dean Alfange, of the Class of 1922, provides a first and a second prize for the students writing the best essays on a feature or an issue of American constitutional government.

COBB ESSAY PRIZE. A foundation of five hundred dollars by Willard A. Cobb, of the Class of 1864, provides a prize for the student submitting the best essay on journalism.

CUNNINGHAM ESSAY PRIZE. A foundation of five hundred dollars by John Howard Cunningham, of the Class of 1866, provides a prize for the senior submitting the best essay on some phase of the life of Abraham Lincoln.

HEAD ESSAY PRIZE. A foundation of one thousand dollars by Franklin H. Head, LL.D., of the Class of 1856, provides a prize for the best senior essay upon a theme relating to Alexander Hamilton.

HUTTON ESSAY PRIZE. A foundation of five hundred dollars by William Hutton, D.D., of the Class of 1864, provides a prize for the sophomore submitting the best essay on an assigned subject in the history, translations, or literature of the Bible.

KELLOGG ESSAY PRIZES. A foundation of seven hundred dollars by Charles C. Kellogg, of the Class of 1849, provides book prizes for a junior, sophomore, and freshman who excel in English essays.

KIRKLAND ESSAY PRIZE. A foundation of five hundred dollars by Mrs. A. R. Kirkland provides a prize for the senior writing the best essay upon a theme in Biblical science.

PRUYN ESSAY PRIZE. A foundation of five hundred dollars by former Chancellor John Van Schaick Lansing Pruyn of the University of the State of New York, given on August 5, 1863, has provided for the award annually of the so-called Pruyn Medal. Under a revision of its terms, as approved by his heirs on October 26, 1933, a money prize is offered for the senior or junior writing the best essay on "The Political Duties of Educated Young Men."

SOPER ESSAY PRIZE. A foundation of fifteen hundred dollars by Arthur W. Soper provides a prize for the best essay on a topic in economics assigned by the Faculty. The competition is open to all seniors who are taking a second or third year-course in economics.

APPENDIX

COLLEGE RECORDS 1958-1959

Board of Trustees

The Faculty

Administrative Officers and Staff

Society of Alumni

Degrees, Honors, and Awards

Hamilton College Finances

Board of Trustees

OFFICERS

CLARK H. MINOR ..... *Chairman*

HARLAN F. CALKINS ..... *Clerk*

ROBERT A. KERR ..... *Treasurer*

	FIRST ELECTED	TERM EXPIRES
DANIEL BURKE,* LL.D., New York	1913	Life
JOHN L. STRICKLAND,* Ph.B., Utica	1923	Life
ELIHU ROOT, JR.,* LL.D., New York	1924	Life
CLARK H. MINOR,* D.Eng., New York, *Chairman*	1927	Life
NEILE F. TOWNER,* LL.D., Albany	1927	Life
GEORGE L. ABBOTT,* Ph.B., Palmyra	1932	Life
EDWARD R. EVANS,* M.D., Utica	1932	Life
GEORGE F. GENTES,* B.S., New York	1937	Life
ALEXANDER F. OSBORN,* L.H.D., Buffalo	1941	Life
CHESTER R. DEWEY,* LL.B., Utica	1951	Life
WILLIAM M. BRISTOL, JR., Ph.B.	1938	1961
FREDERIC P. LEE, A.M., Bethesda, Maryland	1942	1965
IRVING M. IVES, LL.D., Norwich	1942	1965
CLANCY D. CONNELL, A.B., New York	1944	1964
JOHN H. GARDNER, D.D., Baltimore, Maryland	1946	1964
WILLARD B. EDDY, M.S., Rochester	1946	1960
CHARLES F. HEMENWAY, A.B., Chicago, Illinois	1947	1961
COLEMAN BURKE, LL.B., New York	1948	1962
GRANT KEEHN, M.B.A., New York	1948	1964
ROBERT W. MCEWEN, Ph.D., Clinton	1948	
VINCENT R. SMALLEY, LL.B., New York	1948	1961
WILLIAM C. BOLENIUS, A.B., New York	1949	1960

* Emeritus

Philip C. Jessup, Ph.D., New York	1949	1964
Louis N. Brockway, A.B., New York	1951	1962
Howard M. Bingham, B.S., Detroit, Michigan	1952	1964
Donald D. Bradley, B.S., Williamsville	1954	1960
W. Fenn Hoyt, M.D., Springfield, Massachusetts	1955	1961
Robert L. Reed, LL.B., New York	1955	1961
Harlan F. Calkins, LL.B., Rochester, *Clerk*	1956	1962
Kenneth W. Watters, Jr., LL.B., Scottsdale, Arizona	1956	1962
Hamilton H. Bookhout, A.M., Delmar	1957	1963
A. Reynolds Crane, M.D., Philadelphia, Pennsylvania	1957	1963
Lloyd V. Almirall, LL.B., New York	1958	1964
Robert L. Wilson, LL.B., Buffalo	1958	1964
Richard W. Couper, A.M., Binghamton	1959	1965
Jeremy C. Jenks, M.B.A., New York	1959	1965
Henry C. Estabrook, LL.B., Fulton	1959	1965
Nahum B. Pratt, A.B., Silver Creek	1959	1960

COMMITTEES of the TRUSTEES

Budget and Finance ..... Keehn (chairman), Bolenius, Dewey, Gentes, Hemenway, Jenks, and Smalley

Buildings, Grounds, and Equipment ..... Lee (chairman), Bolenius, Bradley, Calkins, Dewey, Hemenway, and Wilson

Endowment ..... Reed (chairman), Almirall, Brockway, Connell, Estabrook, and Pratt

Executive ..... Minor (chairman), C. Burke, Dewey, Eddy, Evans, Keehn, Lee, and McEwen

Instruction ..... Eddy (chairman), Bingham, Bookhout, Couper, Gardner, Hoyt, and Jessup

Nominations ..... C. Burke (chairman), Connell, Crane, Towner, and Watters

Special Advisory Committee for the Kirkland Fund ..... Jenks (chiarman), George P. Bates, C. Burke, Connell, and Henry T. Maijgren

The Faculty*

ROBERT WARD MCEWEN ..... President
A.B., Macalester College; B.D., McCormick Theological Seminary; A.M. and Ph.D., University of Chicago; LL.D., Hamilton College and Macalester College; L.H.D., St. Lawrence University; Litt.D., Union College

WINTON TOLLES ..... Dean of the College
A.B. and A.M., Hamilton College; Ph.D., Columbia University

* * *

PAUL ADEE FANCHER ..... Professor of English and Director of the Choir, Emeritus
A.B., Amherst College; A.M., Columbia University

NELSON CLARK DALE ..... Professor of Geology and Director of the Knox Museum, Emeritus
B.S., Middlebury College; A.M., Brown University; Ph.D., Princeton University

ASA EMANUEL MCKINNEY ..... Childs Professor of Agricultural and General Chemistry, Emeritus
A.B. and A.M., Indiana University; Ph.D., Cornell University

ROBERT BARNES RUDD ..... Hamilton B. Tompkins Professor of English Literature, Emeritus
A.B. and A.M., Hamilton College; B.A., Oxford University

* * *

WALTER NORTON HESS ..... Stone Professor of Biology
A.B., Oberlin College; A.M. and Ph.D., Cornell University

BERRIAN RANKIN SHUTE ..... Professor of Music
Institute of Musical Art

WILLARD BOSTWICK MARSH ..... Upson Professor of Rhetoric and Oratory
A.B. and A.M., Hamilton College; A.M., Princeton University

GEORGE HARVEY CAMERON ..... Professor of Physics
B.Sc., University of Saskatchewan; Ph.D., California Institute of Technology

EDGAR BALDWIN GRAVES ..... Professor of History
A.B., Haverford College; A.M. and Ph.D., Harvard University

MOX ARTHUR WEBER ..... Professor of Physical Education
A.B., Oberlin College; A.M., Columbia University

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* Arranged in order of appointment to rank.

GEORGE LYMAN NESBITT . . . Hamilton B. Tompkins Professor of English Literature
A.B., Hamilton College; A.M. and Ph.D., Columbia University

EARL WENDEL COUNT . . . Professor of Anthropology
A.B., Williams College; B.D., Garrett Biblical Institute; Ph.D., University of California

JOHN SAKE GAMBS . . . Leavenworth Professor of Economics
A.B. and A.M., George Washington University; Ph.D., Columbia University

JOHN ROBERT MATTINGLY . . . Benjamin-Bates Professor of Latin
A.B., University of Chicago; Ph.D., Yale University

JOHN WILLIAM BLYTH . . . John Stewart Kennedy Professor of Philosophy
A.B., Haverford College; A.M., State University of Iowa; Ph.D., Brown University

PAUL PARKER . . . Professor of Art
A.B., University of Illinois; A.M., University of Chicago

CHARLES AUGUSTUS GODCHARLES . . . Professor of Psychology
A.B., Bucknell University; A.M. and Ph.D., Duke University

THOMAS MCNAUGHTON JOHNSTON . . . Professor of English
B.S., Washington and Jefferson College; A.M., Tulane University of Louisiana; Ph.D., Duke University

OTTO KARL LIEDKE . . . Munson Professor of the German Language and Literature
Berlin Oberrealschule; A.M. and Ph.D., Cornell University

JAMES FRANKLIN HUNT . . . Professor of Public Speaking and Education
B.S., University of Pennsylvania; M.S., Massachusetts State College; Ph.D., Yale University

BREWSTER HUNTINGTON GERE . . . Samuel F. Pratt Professor of Mathematics
A.B., Yale University; A.M., Syracuse University; Ph.D., Massachusetts Institute of Technology

PHILIP VIRGILIUS ROGERS . . . Professor of Biology
A.B. and A.M., Hamilton College; Ph.D., Yale University

LANDON GALE ROCKWELL . . . James S. Sherman Professor of Political Science
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HIGH HONOR ..... R. R. Chase, De Luca, Hall, Mattern, Rosenfield, Wagner

HONOR ..... Ahrens, Arnold, Blessing, R. T. Brown, Donovan, Fraser, Haight, Kittelberger, Lanson, Lawrence, Ostrander, Ratzan, R. Richardson, Roth, Sade, Stachura, Svenson, Taylor, Towery

CREDIT ..... D. R. Baldwin, Benson, Breithaupt, Crane, Eckerman, Emerson, Epstein, Finn, J. L. FitzGerald, Jr., Havens, D. P. Johnson, Kirkpatrick, McMartin, Mason, Normile, Paul, Perkins, Renert, Reeder, Roots, Rothmaler, Sanderson, Schoemer, Thomas, Weeks, Wilcox

Freshman Class

HIGH HONOR ..... Bricker, Nelson, Stone, Wagner, Weisglass

HONOR ..... Carnay, Dechet, Epsey, Garnett, G. L. Hamilton, Hineline, Honke, Kleinbaum, Kusienski, Schaab, Sobers

CREDIT ..... Abt, Barber, Bemis, Brandt, Collea, Crisp, Drews, Goldman, Greenlee, Greenwald, F. J. Hamilton, Jr., Huff, Jacobson, Kaiser, Markowitz, McElderry, Memmott, Messersmith, Moody, Nagle, Peat, Peterson, Resnick, Salisbury, Schackman, Schmidt, Searls, Seeber, Shaw, Steele, Timourian, Wetterau, Wohlhueter, Yager

FELLOWSHIPS, SCHOLARSHIPS, and PRIZES

DEAN ALFANGE ESSAY PRIZE ..... Spillman

BENJAMIN WALWORTH ARNOLD PRIZE SCHOLARSHIPS ..... Sophomore, Bricker; Junior, Stachura; Senior, Pennisten

BABCOCK PRIZE IN PHILOSOPHY AND PEDAGOGY ..... Marcy

BROCKWAY PRIZE ..... Bricker

CLARK PRIZE ORATORICAL CONTEST ..... Flanagan
Contestants ..... French, Mead, Murdock, Naylor

COBB ESSAY PRIZE ..... Hayes

CURRAN PRIZE IN GREEK ..... M. T. R. Smith

CAPTAIN GERALD FITZGERALD DALE SENIOR SCHOLARSHIP ..... Skippon

NELSON CLARK DALE, JR., PRIZE IN MUSIC ..... J. R. Nelson, Storm

DARLING PRIZE IN AMERICAN HISTORY ..... Magzis

FAYERWEATHER PRIZE SCHOLARSHIPS ..... Bricker, R. J. Stone, Weissglass, W. E. Nelson, B. J. Wagner

DR. EDWARD FITCH PRIZE SCHOLARSHIP IN LATIN ..... Peat

GELAS MEMORIAL PRIZE ..... W. L. Hoyt

HAWLEY PRIZE IN GREEK ..... Roeder

HAWLEY PRIZE IN LATIN ..... Lanson

HOLBROOK PRIZE IN BIOLOGY ..... Hakanson

EDWARD HUNTINGTON MEMORIAL MATHEMATICAL SCHOLARSHIP ..... Penniston

KELLOGG ESSAY PRIZE ..... Strawbridge

KIRKLAND ESSAY PRIZE ..... Patton

MCKINNEY PRIZE DEBATE ..... First, Appleby; Second, Murdock

MCKINNEY PRIZE SPEAKING ..... Juniors: first (tie), Kesterbaum, Pilson, Tekulsky; Sophomores: first, Blessing, second, Mattern; Freshman: first, Bemis, second, Bricker

JAMES SOPER MERRILL PRIZE ..... Flanagan

NORTON FOUNDATION PRIZE ..... Burr

PHI BETA KAPPA PRIZE ..... Stradling

PRUYN ESSAY PRIZE ..... Bonwitt

PUTNAM PRIZE IN AMERICAN HISTORY ..... Zimmerman

RENWICK PRIZE SCHOLARSHIP IN BIOLOGY ..... Englund

FRANK HUMPHREY RISTINE SCHOLARSHIP ..... Pilson

ROOT FELLOWSHIP ..... B. T. C. Davis

OREN ROOT PRIZE SCHOLARSHIPS ..... Rothmaler, L. J. Fraser, A. R. Thomas

SOPER ESSAY PRIZE ..... R. B. Russell

SQUIRES PRIZE IN PHILOSOPHY ..... Appleby

TOMPKINS PRIZES IN MATHEMATICS .. First, Hill; Second (tie), Meisner, Pennisten

WINSLOW PRIZE IN GREEK ..... Roeder

WINSLOW PRIZE IN LATIN ..... J. W. Davis

WINSLOW PRIZE IN ROMANCE LANGUAGES ..... Skippon

HARLAN F. WOODFORK SCHOLARSHIP ..... G. L. Hamilton, Honke

WOOLLCOTT PRIZE ..... W. W. Smyth

WYLD PRIZE IN GERMAN ..... Rosenfeld

Hamilton College Finances

FINANCIAL RESOURCES
(Book Value as of June 30, 1958)

College Property and Buildings	$3,838,401
Endowment Funds	8,059,908
Current General Funds	436,478
Loan Funds	25,539

SCHOLARSHIP FOUNDATIONS
(Book Value as of June 30, 1959)

Adirondack Scholarship	$ 1,150.00
Anonymous	2,500.00
Benjamin Walworth Arnold	20,000.00
B. T. Babbitt	18,000.00
Edward S. Babcock	41,305.00
H. Roswell Bates by Lt. Col. William A. Aiken	20,000.00
Edwin Baylies	5,000.00
Bement by Albert C. Phillips	2,020.00
James L. Bennett	4,000.00
Mrs. James L. Bradley	2,000.00
O. T. Bundy	2,000.00
William Burton	1,500.00
Andrew Carnegie	57,500.00
Laura Carter	12,000.00
George A. Clark (Byne)	5,000.00
Class of 1867	2,005.00
Class of 1899	2,516.00
Class of 1909	5,354.00
P. Charles Cole	1,000.00
Captain Gerald Fitzgerald Dale	9,275.00
William E. Davis	1,894.00
Melville Emory Dayton Memorial	8,000.00
William E. Dodge	5,000.00
Charles Holland Duell	10,500.00
Duell, German	5,300.00
George E. Dunham	36,000.00
Lieutenant Willard B. Eddy, Jr.	20,010.00
Ethel Kelsey Evans	4,396.00
Fayerweather	10,000.00
H. P. Ferguson	2,464.00
Elizabeth R. Fitch	26,335.00
Roswell P. Flower	2,000.00
Alexander Folsom	2,000.00

Geneva Presbytery	1,700.00
Charles D. Gilfillan	2,500.00
Eleanor F. Green	15,000.00
John G. Green	25,000.00
A. Delos Gridley	5,000.00
David S. Hastings	14,044.00
Theodore S. Hubbard	3,500.00
Edward Huntington	5,000.00
The Honorable Irving M. Ives	15,000.00
D. Willis James	2,000.00
Samuel H. Jardin	4,000.00
Marcus Judson	1,000.00
Henry W. King	2,000.00
John J. Knox	1,500.00
Leavenworth	23,339.00
Henry M. Love, '83, Scholarship	16,129.00
William DeLoss Love	18,890.00
Julia J. MacCartee (Darling Memorial)	9,525.00
Annie L. MacKinnon by Edward Fitch	5,000.00
Marquand by Alan Trask	4,000.00
Charles G. Matteson Memorial	1,020.00
Reuben L. Maynard	186,908.00
Henry Scott McCall	1,000.00
National Lead Foundation Scholarship, in honor of Harry O. Bates, '99	1,000.00
Nichols by Erastus N. Nichols	748.00
Renwick	1,300.00
Frank H. Ristine	3,049.00
Oren Root	10,000.00
Oren Root, Jr.	5,000.00
Charlotte B. Sackett Memorial	10,569.00
Seventy-five Year Class	8,806.00
C. C. Sheppard	1,500.00
Horace B. Silliman	3,000.00
A. P. Sloan	2,000.00
A. W. Soper	10,000.00
Arthur W. Soper	5,000.00
James P. Soper	2,000.00
S. B. Steere	10,000.00
C. S. Truax	17,104.00
J. Platt Underwood	5,125.00
Walcott and Pettibone	9,500.00
Henry Wales	2,982.00
Edward C. Walker III, '12	2,500.00
J. B. Wells	2,000.00
Knut O. Westlye	2,099.00
Sylvester Willard Memorial by Mrs. S. Willard	2,000.00
Leroy Williams	146,211.00

Index

ACADEMIC PROGRAM, 25-66
Acceptance, early, 10
Administration building, 75
Administrative personnel, 108, 109
Admission requirements, 9
Advanced standing, 11
Alpha Psi Omega, 83
Alumni Associations, officers, 112
Alumni Associations, scholarships, 17
Alumni Council, 110
Ancient Civilization, courses in, 45
Anthropology collection, 77
Anthropology, courses in, 39
Application fee, 13
Application form, opposite 16
Aptitude tests, 10
Art, courses in, 40
Art Lending Library, 81
Art program, 81
Art studios, 74
Arts, undergraduate preparation, 68
Athletic awards, 82
Athletic facilities, 76
Athletic program, 59, 60
Attendance requirement, 32, 33
Awards, scholastic, 87, 116
Awards, special, 82, 84, 90, 116

BACHELOR'S DEGREES, 37
Band, 83
Basic courses, 28
Bills, payment of, 15
Biology collection, 77
Biology, courses in, 41
Biology, prize, 94, 118
Biology prize scholarship, 95
Board, charge for, 14
Board of Trustees, 101
Buildings and grounds, 73
Business, career in, 69
Buttrick Hall, 75

CALENDAR, COLLEGE, 1959-1960, 4
Campus, 73
Career Planning, 67
Chapel, 75, 80
Chemistry courses, 42
Chemistry prizes, 96
Choir, 58, 81
Classical fellowships, 90
Classical languages, courses in, 44
Classical prizes, 93-96
Classical scholarships, 118, 119
Classrooms, 74
Clubs, student, 84
Commencement, dates of, 4
Commencement honors, 89, 116
Commons, Soper Hall of, 76
Concentration requirement, 29
Concerts, 80
Cooperative Engineering Program, 34, 68
Counseling, 67
Courses of instruction, 39
Credit requirement, 27
Credit, summer school, 37
Credit, transfer, 11, 37

DEBATE, COURSES IN, 62
Debate, intercollegiate, 83
Debate prizes, 93, 94, 118, 119
Declamation prizes, 93, 94, 118, 119
Degrees, 37, 114
Degrees, requirements for, 27
Delta Sigma Rho, 83
Dentistry, career in, 68
Department honors, 99, 116
Department of instruction, 39
Dormitories, 14, 73
Dramatics, 83
Dramatics, courses in, 63

ECONOMICS, COURSES IN, 46
Economics prize essay, 97, 119
Education, courses in, 47
Electives, freshman, 33-34
Electives, regulations, 36-37
Electives, upperclass, 34
Employment, student, 23
Endowment, 5, 120
Engineering, career in, 34, 68

English Composition, courses in, 48
English Composition prizes, 95
English Composition, transfer credit in, 11
English Literature, courses in, 49
English Literature prize scholarship, 92, 119
Enrollment, 5, 7
Enrollment, average, 5
Essay prizes, 97, 118
Examinations, comprehensive, 30
Examination, entrance, 10
Examinations, honor system for, 79
Examinations, schedule, 1959-1961, 4
Expenses, 13
Express service, 73

FACULTY COMMITTEES, 107
Faculty, members of, 103
Faculty, ratio, 5
Fees, 13
Fellowships, 90
Finances, College, 1958, 120
Finances, student, 13
Financial aid, 17
Foreign study, 34
Foundations, scholarships, 120
Fraternities, 85
French, courses in, 64
Freshman induction, 4, 11
Freshman program, 33
Freshman scholarships, 17

GENERAL INFORMATION, 71
Geology collection, 77
Geology, courses in, 50
Geology prize, 95
German, courses in, 52
German prize, 96, 119
German prize scholarship, 91
Government, courses in, 53
Government service, career in, 69
Government, student, 79
Grade requirement, 32
Graduate study fellowships, 90
Graduate study, preparation for, 68
Graduation requirements, 27
Greek, courses in, 44
Greek prize scholarship, 91
Greek prizes, 91, 92, 118
Greek, special scholarship, 22
Gymnasium, Alumni, 76

HAMILTON, ALEXANDER, 5
Hamilton-Oneida Academy, 5
History, ancient, courses in, 45
History, courses in, 54
History prizes, 93, 95, 118, 119
Honor societies, 86, 89, 116
Honor societies, class, 86
Honor system, 79
Honors, Commencement, 89, 116
Honors, departmental, 89, 116
Honors, Phi Beta Kappa, 89, 116
Hospital care, 77

INDEPENDENT STUDY, 36
Infirmary facilities, 75
Infirmary service, 77
Insurance, accident, 77
Interviews, personal, 10

JOURNALISM, see Publications, 84
Journalism prize, 97, 118
Junior year abroad, 34

KIRKLAND COTTAGE, 75
Kirkland, Samuel, 5

LABORATORIES, 74
Language requirement, 28
Latin, courses in, 44
Latin prize scholarships, 92
Latin prizes, 93, 96, 118, 119
Latin, special scholarships, 22
Law, career in, 69
Lectures, 80
Library, 76
Library, honor system, 77
Library personnel, 108
Library, special collections, 76
Loans, 23
Location, geographical, 73

MAJORS, 29
Mathematics, courses in, 56
Mathematics prize scholarships, 91, 119
Mathematics prizes, 96
Medical service, 77
Medicine, career in, 68
Museum, Knox, 74, 77
Music, courses in, 57
Music, instruction in, 58

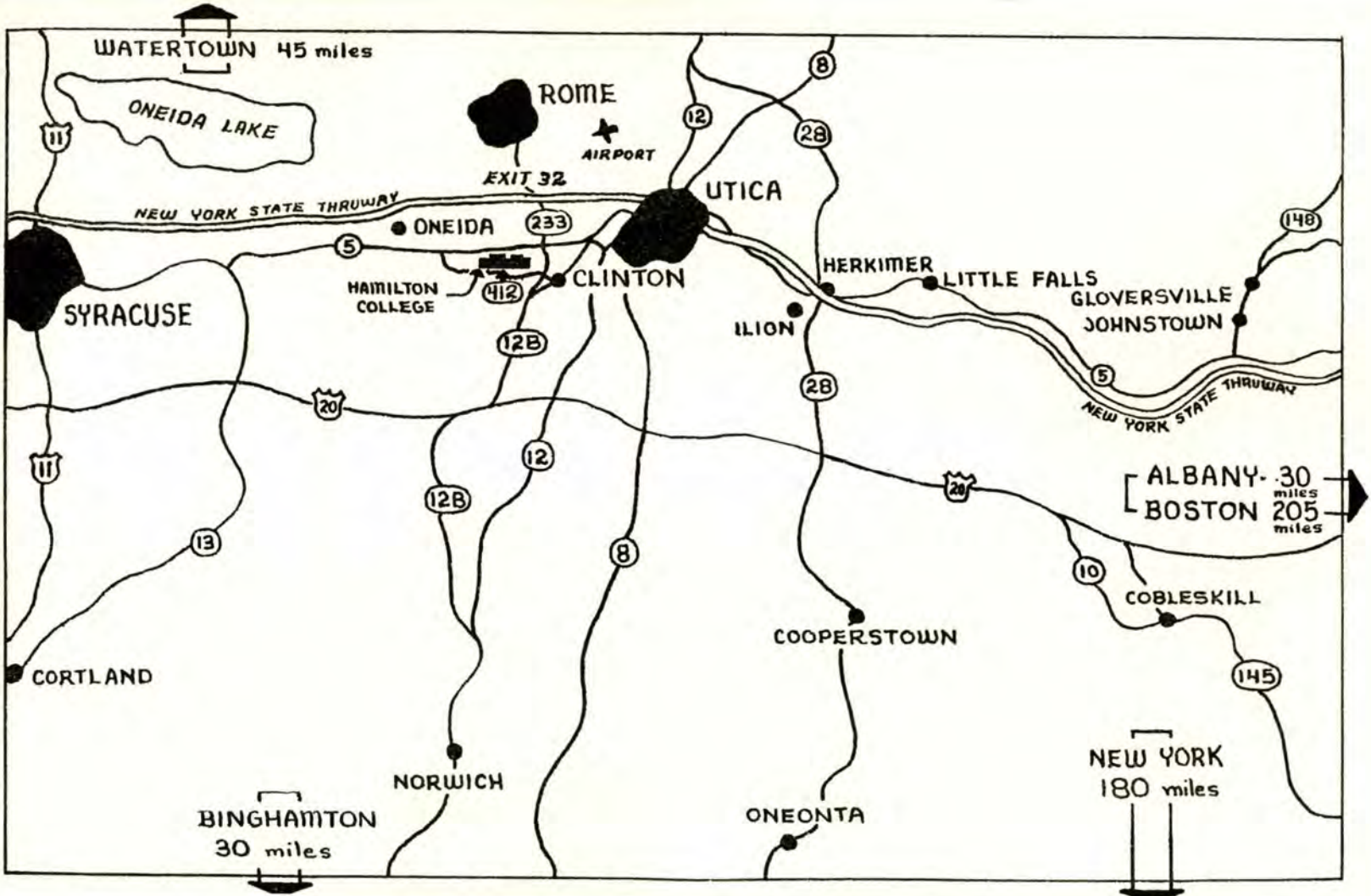
Music prize, 93, 118
Music, student organizations, 83
Music trophies, 84
OFFICERS OF ADMINISTRATION, 108
Offices, faculty, 75
Oratorical prizes, 93, 94, 118, 119
Organizations, student, 79

PHI BETA KAPPA, 89, 116
Philosophy, courses in, 58
Philosophy prizes, 93, 95, 118, 119
Physical education program, 59, 81
Physical education requirement, 32, 59
Physician, College, 77, 109
Physics, courses in, 60
Physics prize, 95
Pi Delta Epsilon, 84
Placement bureau, 70
Political Science prizes, 97, 118
Postal service, 73
Pre-professional training, 67
Prize scholarships, 90, 118
Prizes, 93, 118
Psychology, courses in, 61
Public Speaking, courses in, 62
Public Speaking prizes, 93, 94, 118, 119
Publication, student, 84

RAILWAY SERVICE, 73
Registration, 11
Registration deposit, 13
Registration schedule, 1959-1960, 4
Religion, 5, 80
Religion courses, 58
Religion prizes, 94, 95, 97
Religious services, 80
Residence requirements, 32
Resources, College, 73
Romance Languages, courses in, 64
Romance Languages prize, 96, 119
Rooms, dormitory, 14, 73
Root Fellowship, 90, 119

SCHOLARSHIP FOUNDATIONS, 120
Scholarships, 17
Scholarships, requirements for, 17
Science fellowship, 90, 119
Sciences, undergraduate preparation, 68
Scientific collections, 77
Semester hours, see Credit, 27
Singing trophies, 84
Social Tax, 15
Society of Alumni, 110
Sophomore program, 34
Spanish, courses in, 65
Sports, see Athletics, 82
Student committees, 79
Student counseling, 67
Student employment, 23
Student government, 79
Student organizations, 79
Student publications, 84
Student Senate, 79
Study abroad, 34
Study, senior, 31
Summer school credits, 37
TEACHING, CAREER IN, 69
Tests, aptitude, 10
Transfer, credit, 11
Trustees, 101
Trustees committees, 102
Tuition, 14

UNDERGRADUATE LIFE, 79
Upperclass program, 34


WATERTOWN 45 miles
ONEIDA LAKE
ROME
AIRPORT
EXIT 32
NEW YORK STATE THRUWAY
UTICA
ONEIDA
SYRACUSE
HAMILTON COLLEGE
CLINTON
HERKIMER
LITTLE FALLS
GLOVERSVILLE
JOHNSTOWN
ILION
NEW YORK STATE THRUWAY
ALBANY 30 miles
BOSTON 205 miles
COBLESKILL
COOPERSTOWN
CORTLAND
NORWICH
BINGHAMTON 30 miles
ONEONTA
NEW YORK 180 miles
11
12
8
28
233
5
412
12B
20
13
10
145
148